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# LOG POSITION VOLUME TABLES FOR WESTERN CONIFERS

Based on the

Girard and Bruce Form Class  
Volume Tables for 16-foot Logs



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LOG POSITION VOLUME TABLES FOR WESTERN CONIFERS

Based on the Girard and Bruce Form Class Volume Tables  
For 16-Foot Logs <sup>1/</sup>

By

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Board-foot volumes by the Scribner rule for individual logs in coniferous trees of western species are shown in these tables. This information is expected to be of special importance for the estimation of standing timber volumes by log grades and for elimination of volume of cull logs from gross cruise estimates.

Individual log volumes are given for trees with form classes from 65 to 90, diameters at breast height from 10 or 12 to 90 inches, and merchantable heights from 1 to 11 logs. For example, the volume of each log in a 30-inch, 5-log tree of form class 70 may be found by turning to the form class 70 table, glancing down the first vertical column to the 30-inch diameter class, reading volumes for butt and top logs in the two adjacent columns, and finally glancing across the page to the columns under 5-log-height trees to read the volumes of the second, third, and fourth logs.

Except for trees of small diameter, the tables were developed by applying percentages to the total tree volumes listed in "Board Foot Volume Tables for 16 foot Logs," by Mason, Bruce, and Girard. The percentages shown in table 1 of the Mason, Bruce, and Girard tables were not used since they are for average form class and average diameter outside bark at breast height. Percentages used for these tables vary not only with log position and tree height in number of logs, but also with form class and diameter outside bark at breast height.

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1/ Girard, J. W., and Bruce, Donald. Tables for estimating board foot volume of trees in 16 foot logs. Mason, Bruce, and Girard, Portland, Oregon.

2/ Ruth Ufen and Jean Myers of the Pacific Northwest Forest and Range Experiment Station assisted with the calculations.



The modified Behre hyperbola equation <sup>3/</sup> was used to estimate small-end inside-bark diameters of logs in trees of various first log small-end diameters (also inside bark) and various total heights in number of logs. Log volumes corresponding to these small-end diameters were calculated by the Scribner log rule formula <sup>4/</sup> and from these log volumes, percentages of total tree volume were computed. The percentages were then listed according to form class, diameter-at-breast-height class, and tree height in number of 16-foot logs.

These percentages, however, could not be applied to volumes of trees with an inside-bark diameter less than 16 inches at top of butt log since Mason, Bruce, and Girard define merchantable height as "that portion of the tree from stump height to a point on the stem where the diameter is 50 percent of that at top of first 16-foot log but is no case less than 8 inches." Thus, a tree with a butt log of 14 inches in diameter inside bark at the small end would have a top log with an 8-inch minimum diameter, inside bark. Since 8 inches is more than 50 percent of the minimum diameter of the butt log, it was necessary, in such cases, to use a different technique which has been described by Girard and Bruce. <sup>5/</sup>

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3/ See footnote 1.

4/ Bruce, Donald. A formula for the Scribner rule. Jour. Forestry 23: 432-433. 1925.

5/ See footnote 1.

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     | Log position |     |     |     |     | C volume of 16-foot logs |     |     |     |     |     |     |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|--------------|-----|-----|-----|-----|--------------------------|-----|-----|-----|-----|-----|-----|
|                  |             |            | 6                             |     |     |     |     | 7            |     |     |     |     | 8                        |     |     |     |     |     |     |
|                  |             |            | 3                             | 4   | 5   | 6   | 7   | 3            | 4   | 5   | 6   | 7   | 2                        | 3   | 4   | 5   | 6   |     |     |
| 14               | 4           | 3          | 4                             | 5   | 5   | 6   | 7   | 23           | 19  | 14  | 10  | 9   | 15                       | 19  | 23  | 21  | 17  | 14  | 10  |
| 16               | 6           | 5          | 5                             | 6   | 7   | 8   | 9   | 26           | 22  | 16  | 12  | 11  | 20                       | 26  | 31  | 27  | 24  | 20  | 16  |
| 18               | 8           | 3          | 8                             | 9   | 6   | 9   | 10  | 28           | 25  | 19  | 13  | 11  | 25                       | 30  | 35  | 31  | 27  | 23  | 18  |
| 20               | 10          | 3          | 10                            | 12  | 8   | 13  | 10  | 30           | 25  | 19  | 13  | 11  | 28                       | 33  | 35  | 31  | 26  | 20  | 15  |
| 22               | 13          | 3          | 10                            | 12  | 10  | 12  | 10  | 32           | 29  | 22  | 15  | 11  | 29                       | 33  | 37  | 32  | 26  | 21  | 15  |
| 24               | 16          | 3          | 10                            | 14  | 10  | 12  | 8   | 33           | 30  | 25  | 19  | 11  | 29                       | 31  | 37  | 32  | 26  | 19  | 13  |
| 26               | 19          | 3          | 12                            | 17  | 12  | 14  | 10  | 34           | 32  | 24  | 17  | 11  | 29                       | 31  | 35  | 31  | 28  | 23  | 17  |
| 28               | 22          | 4          | 17                            | 20  | 15  | 17  | 11  | 21           | 17  | 11  | 14  | 10  | 20                       | 22  | 24  | 21  | 17  | 14  | 10  |
| 30               | 26          | 5          | 20                            | 13  | 25  | 19  | 13  | 23           | 19  | 14  | 10  | 9   | 15                       | 19  | 23  | 21  | 17  | 14  | 10  |
| 32               | 30          | 6          | 23                            | 15  | 28  | 22  | 15  | 26           | 22  | 16  | 12  | 11  | 10                       | 15  | 19  | 23  | 21  | 17  | 14  |
| 34               | 34          | 7          | 26                            | 18  | 26  | 22  | 17  | 30           | 25  | 17  | 13  | 11  | 10                       | 15  | 19  | 23  | 21  | 17  | 14  |
| 36               | 36          | 8          | 30                            | 20  | 32  | 25  | 17  | 33           | 29  | 22  | 15  | 11  | 10                       | 15  | 19  | 23  | 21  | 17  | 14  |
| 38               | 38          | 9          | 34                            | 22  | 36  | 28  | 19  | 38           | 32  | 24  | 17  | 11  | 10                       | 15  | 19  | 23  | 21  | 17  | 14  |
| 40               | 48          | 10         | 40                            | 32  | 42  | 24  | 21  | 42           | 35  | 27  | 20  | 12  | 10                       | 15  | 19  | 23  | 21  | 17  | 14  |
| 42               | 52          | 11         | 45                            | 35  | 42  | 30  | 20  | 51           | 44  | 33  | 24  | 18  | 15                       | 15  | 19  | 23  | 21  | 17  | 14  |
| 44               | 58          | 13         | 50                            | 50  | 54  | 42  | 34  | 57           | 48  | 37  | 26  | 21  | 18                       | 15  | 19  | 23  | 21  | 17  | 14  |
| 46               | 64          | 14         | 54                            | 54  | 54  | 42  | 34  | 60           | 52  | 40  | 29  | 24  | 21                       | 18  | 15  | 19  | 23  | 21  | 17  |
| 48               | 70          | 16         | 60                            | 60  | 60  | 54  | 46  | 67           | 57  | 44  | 32  | 27  | 24                       | 21  | 18  | 15  | 19  | 23  | 21  |
| 50               | 76          | 17         | 65                            | 51  | 55  | 38  | 33  | 73           | 62  | 48  | 34  | 30  | 27                       | 24  | 21  | 18  | 15  | 19  | 23  |
| 52               | 83          | 19         | 70                            | 76  | 76  | 79  | 73  | 85           | 79  | 66  | 52  | 37  | 34                       | 31  | 28  | 25  | 22  | 19  | 15  |
| 54               | 90          | 21         | 76                            | 76  | 76  | 79  | 73  | 95           | 85  | 73  | 56  | 40  | 37                       | 34  | 31  | 28  | 25  | 22  | 19  |
| 56               | 97          | 22         | 82                            | 82  | 82  | 84  | 76  | 95           | 85  | 73  | 60  | 43  | 40                       | 37  | 34  | 31  | 28  | 25  | 22  |
| 58               | 104         | 24         | 86                            | 86  | 86  | 88  | 80  | 92           | 82  | 78  | 60  | 46  | 43                       | 40  | 37  | 34  | 31  | 28  | 25  |
| 60               | 112         | 26         | 90                            | 90  | 90  | 92  | 84  | 92           | 86  | 78  | 62  | 49  | 46                       | 43  | 40  | 37  | 34  | 31  | 28  |
| 62               | 120         | 28         | 96                            | 96  | 96  | 98  | 90  | 96           | 90  | 82  | 66  | 52  | 49                       | 46  | 43  | 40  | 37  | 34  | 31  |
| 64               | 128         | 30         | 102                           | 102 | 102 | 104 | 94  | 102          | 96  | 84  | 68  | 56  | 53                       | 50  | 47  | 44  | 41  | 38  | 35  |
| 66               | 136         | 32         | 108                           | 108 | 108 | 110 | 100 | 112          | 106 | 94  | 78  | 64  | 61                       | 58  | 55  | 52  | 49  | 46  | 43  |
| 68               | 144         | 34         | 114                           | 114 | 114 | 116 | 106 | 118          | 112 | 101 | 88  | 75  | 72                       | 69  | 66  | 63  | 60  | 57  | 54  |
| 70               | 154         | 36         | 120                           | 120 | 120 | 122 | 112 | 122          | 116 | 109 | 95  | 82  | 79                       | 76  | 73  | 70  | 67  | 64  | 61  |
| 72               | 163         | 38         | 126                           | 126 | 126 | 128 | 116 | 126          | 120 | 113 | 98  | 85  | 82                       | 79  | 76  | 73  | 70  | 67  | 64  |
| 74               | 173         | 40         | 132                           | 132 | 132 | 134 | 122 | 132          | 126 | 119 | 106 | 93  | 80                       | 77  | 74  | 71  | 68  | 65  | 62  |
| 76               | 182         | 42         | 138                           | 138 | 138 | 140 | 128 | 138          | 132 | 125 | 112 | 99  | 86                       | 83  | 80  | 77  | 74  | 71  | 68  |
| 78               | 192         | 45         | 144                           | 144 | 144 | 146 | 134 | 144          | 137 | 130 | 117 | 104 | 91                       | 88  | 85  | 82  | 79  | 76  | 73  |
| 80               | 203         | 46         | 150                           | 150 | 150 | 152 | 140 | 150          | 143 | 136 | 123 | 110 | 97                       | 94  | 91  | 88  | 85  | 82  | 79  |
| 82               | 213         | 50         | 156                           | 156 | 156 | 158 | 142 | 156          | 149 | 142 | 129 | 116 | 103                      | 100 | 97  | 94  | 91  | 88  | 85  |
| 84               | 221         | 53         | 160                           | 160 | 160 | 162 | 146 | 160          | 153 | 146 | 133 | 120 | 107                      | 104 | 101 | 98  | 95  | 92  | 89  |
| 86               | 235         | 56         | 164                           | 164 | 164 | 166 | 150 | 164          | 157 | 150 | 137 | 124 | 111                      | 108 | 105 | 102 | 99  | 96  | 93  |
| 88               | 247         | 58         | 176                           | 176 | 176 | 178 | 162 | 176          | 173 | 165 | 152 | 139 | 126                      | 113 | 110 | 107 | 104 | 101 | 98  |
| 90               | 258         | 61         | 194                           | 194 | 194 | 196 | 180 | 194          | 191 | 183 | 170 | 157 | 144                      | 131 | 128 | 125 | 122 | 119 | 116 |

| D.b.h.<br>inches                                | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |    |    |     |     |     |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|-------------|------------|-------------------------------|-----|-----|-----|-----|----|----|-----|-----|-----|-----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|   |             |            | 9                             |     |     |     |     |    | 10 |     |     |     |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |             |            | 2                             |     | 3   |     | 4   |    | 5  |     | 6   |     | 7   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Log position                                    |             |            |                               |     |     |     |     |    |    |     |     |     |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gross Scribner Decimal C volume of 16-foot logs |             |            |                               |     |     |     |     |    |    |     |     |     |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 32  | 30          | 6          | 27                            | 25  | 22  | 19  | 16  | 13 | 10 | 64  | 56  | 48  | 38  | 29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 34  | 34          | 7          | 31                            | 28  | 26  | 22  | 18  | 15 | 11 | 60  | 51  | 42  | 32  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 36  | 36          | 8          | 35                            | 32  | 29  | 25  | 21  | 17 | 13 | 65  | 55  | 45  | 34  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 38  | 38          | 9          | 39                            | 36  | 33  | 28  | 24  | 21 | 17 | 61  | 52  | 42  | 33  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40  | 40          | 10         | 44                            | 40  | 36  | 32  | 27  | 21 | 16 | 68  | 56  | 44  | 36  | 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 42  | 42          | 11         | 49                            | 45  | 40  | 35  | 29  | 24 | 18 | 70  | 60  | 50  | 45  | 34 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 44  | 44          | 13         | 54                            | 54  | 49  | 45  | 39  | 32 | 26 | 72  | 61  | 52  | 46  | 34 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 46  | 46          | 14         | 59                            | 54  | 51  | 49  | 42  | 36 | 30 | 74  | 64  | 54  | 48  | 36 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 48  | 48          | 16         | 65                            | 59  | 54  | 47  | 39  | 31 | 24 | 76  | 65  | 55  | 48  | 36 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50  | 50          | 17         | 70                            | 64  | 59  | 51  | 43  | 35 | 26 | 77  | 66  | 56  | 48  | 36 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 52  | 52          | 19         | 76                            | 70  | 64  | 55  | 47  | 38 | 28 | 78  | 67  | 56  | 48  | 36 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 54  | 54          | 21         | 82                            | 76  | 69  | 59  | 51  | 41 | 30 | 79  | 68  | 56  | 48  | 36 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 56  | 56          | 22         | 89                            | 82  | 74  | 64  | 55  | 45 | 33 | 91  | 83  | 76  | 68  | 56 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 58  | 58          | 24         | 96                            | 88  | 80  | 69  | 59  | 48 | 36 | 98  | 90  | 82  | 74  | 56 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60  | 60          | 26         | 103                           | 94  | 86  | 74  | 63  | 52 | 38 | 105 | 96  | 87  | 80  | 60 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 62  | 62          | 28         | 110                           | 101 | 92  | 79  | 66  | 55 | 41 | 112 | 103 | 94  | 85  | 66 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 64  | 64          | 30         | 118                           | 108 | 98  | 85  | 72  | 59 | 44 | 120 | 110 | 100 | 91  | 71 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 66  | 66          | 32         | 124                           | 114 | 104 | 91  | 76  | 62 | 46 | 127 | 116 | 106 | 94  | 72 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 68  | 68          | 34         | 130                           | 123 | 112 | 96  | 82  | 67 | 50 | 136 | 124 | 113 | 103 | 73 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70  | 70          | 140        | 119                           | 102 | 88  | 72  | 53  | 40 | 30 | 141 | 132 | 121 | 110 | 74 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 72  | 72          | 150        | 138                           | 126 | 108 | 93  | 76  | 56 | 44 | 153 | 140 | 129 | 117 | 75 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 74  | 74          | 159        | 146                           | 133 | 115 | 98  | 80  | 60 | 46 | 162 | 148 | 136 | 123 | 76 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 76  | 76          | 168        | 156                           | 144 | 122 | 103 | 84  | 63 | 43 | 171 | 157 | 144 | 130 | 77 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 78  | 78          | 178        | 162                           | 148 | 128 | 109 | 90  | 67 | 48 | 184 | 166 | 151 | 138 | 78 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80  | 80          | 187        | 171                           | 156 | 135 | 115 | 94  | 71 | 51 | 190 | 175 | 159 | 145 | 80 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 82  | 82          | 197        | 180                           | 164 | 142 | 121 | 99  | 75 | 55 | 200 | 181 | 168 | 153 | 82 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 84  | 84          | 206        | 189                           | 173 | 149 | 128 | 105 | 78 | 58 | 211 | 193 | 170 | 150 | 84 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 86  | 86          | 217        | 198                           | 182 | 156 | 134 | 110 | 82 | 62 | 221 | 202 | 185 | 168 | 86 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 88  | 88          | 227        | 208                           | 190 | 164 | 141 | 115 | 86 | 66 | 232 | 212 | 194 | 176 | 88 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90  | 90          | 238        | 218                           | 199 | 172 | 147 | 121 | 90 | 60 | 242 | 222 | 204 | 185 | 86 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |             |            |                               |     |     |     |     |    |    | 243 | 228 | 208 | 172 | 86 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |             |            |                               |     |     |     |     |    |    |     |     |     |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     |     |     |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                  |             |            | 5                             |     |     |     | 6   |     |     |     | 7   |     |     |     |
|                  |             |            | 3                             |     | 4   |     | 2   |     | 3   |     | 4   |     | 5   |     |
|                  |             |            | 2                             | 3   | 2   | 3   | 2   | 3   | 2   | 3   | 2   | 3   | 2   | 3   |
| 14               | 4           | 3          | 4                             | 5   | 4   | 5   | 7   | 6   | 5   | 6   | 4   | 5   | 3   | 4   |
| 16               | 6           | 5          | 6                             | 7   | 6   | 7   | 9   | 7   | 6   | 5   | 7   | 6   | 5   | 6   |
| 18               | 8           | 7          | 7                             | 8   | 7   | 8   | 11  | 9   | 8   | 7   | 9   | 8   | 7   | 8   |
| 20               | 11          | 9          | 11                            | 12  | 10  | 12  | 15  | 13  | 12  | 11  | 14  | 13  | 12  | 11  |
| 22               | 13          | 10         | 13                            | 15  | 12  | 15  | 18  | 16  | 15  | 14  | 17  | 16  | 15  | 14  |
| 24               | 16          | 14         | 14                            | 18  | 15  | 18  | 21  | 19  | 18  | 17  | 20  | 19  | 18  | 17  |
| 26               | 19          | 14         | 15                            | 18  | 16  | 18  | 23  | 20  | 19  | 18  | 23  | 22  | 21  | 20  |
| 28               | 23          | 18         | 18                            | 21  | 19  | 21  | 23  | 20  | 19  | 18  | 24  | 23  | 22  | 21  |
| 30               | 27          | 20         | 20                            | 22  | 17  | 22  | 27  | 23  | 20  | 19  | 28  | 27  | 26  | 25  |
| 32               | 30          | 24         | 24                            | 26  | 20  | 24  | 29  | 23  | 21  | 20  | 25  | 24  | 23  | 22  |
| 34               | 35          | 27         | 27                            | 28  | 23  | 25  | 31  | 26  | 24  | 23  | 28  | 27  | 26  | 25  |
| 36               | 36          | 31         | 31                            | 33  | 26  | 28  | 35  | 30  | 29  | 28  | 34  | 33  | 32  | 31  |
| 38               | 38          | 35         | 35                            | 37  | 30  | 32  | 39  | 32  | 30  | 29  | 35  | 34  | 33  | 32  |
| 40               | 49          | 39         | 42                            | 42  | 32  | 22  | 43  | 37  | 28  | 20  | 45  | 39  | 32  | 29  |
| 42               | 55          | 39         | 46                            | 46  | 36  | 24  | 48  | 37  | 28  | 20  | 49  | 36  | 32  | 29  |
| 44               | 60          | 46         | 51                            | 51  | 40  | 27  | 53  | 45  | 25  | 20  | 55  | 47  | 40  | 36  |
| 46               | 67          | 56         | 56                            | 56  | 44  | 30  | 58  | 49  | 38  | 27  | 60  | 52  | 43  | 35  |
| 48               | 73          | 61         | 61                            | 61  | 48  | 33  | 63  | 54  | 42  | 30  | 65  | 57  | 48  | 39  |
| 50               | 79          | 67         | 72                            | 72  | 56  | 40  | 69  | 59  | 45  | 33  | 71  | 62  | 52  | 42  |
| 52               | 86          | 70         | 78                            | 78  | 61  | 43  | 82  | 69  | 53  | 36  | 77  | 67  | 57  | 46  |
| 54               | 93          | 71         | 85                            | 85  | 66  | 46  | 88  | 75  | 62  | 49  | 90  | 83  | 73  | 63  |
| 56               | 101         | 91         | 91                            | 91  | 71  | 50  | 95  | 80  | 62  | 52  | 97  | 85  | 71  | 60  |
| 58               | 108         | 98         | 106                           | 106 | 80  | 60  | 101 | 87  | 66  | 56  | 104 | 90  | 80  | 69  |
| 60               | 116         | 101        | 108                           | 108 | 92  | 72  | 106 | 92  | 66  | 52  | 112 | 97  | 86  | 75  |
| 62               | 124         | 106        | 116                           | 116 | 98  | 76  | 116 | 98  | 76  | 52  | 119 | 104 | 90  | 74  |
| 64               | 132         | 111        | 123                           | 123 | 105 | 81  | 123 | 105 | 81  | 55  | 126 | 111 | 95  | 84  |
| 66               | 141         | 114        | 112                           | 112 | 87  | 67  | 131 | 112 | 87  | 53  | 136 | 118 | 99  | 86  |
| 68               | 150         | 115        | 119                           | 119 | 106 | 83  | 131 | 119 | 106 | 57  | 137 | 123 | 107 | 93  |
| 70               | 159         | 137        | 110                           | 110 | 119 | 92  | 66  | 143 | 125 | 106 | 86  | 61  | 116 | 114 |
| 72               | 168         | 139        | 116                           | 116 | 126 | 98  | 71  | 152 | 133 | 112 | 91  | 64  | 155 | 138 |
| 74               | 178         | 141        | 155                           | 155 | 134 | 103 | 116 | 103 | 75  | 126 | 111 | 96  | 127 | 110 |
| 76               | 189         | 144        | 166                           | 166 | 111 | 110 | 110 | 105 | 79  | 119 | 101 | 72  | 115 | 106 |
| 78               | 199         | 147        | 174                           | 174 | 119 | 116 | 116 | 103 | 79  | 157 | 132 | 107 | 182 | 122 |
| 80               | 209         | 149        | 180                           | 180 | 157 | 122 | 88  | 189 | 165 | 139 | 113 | 81  | 192 | 172 |
| 82               | 220         | 152        | 165                           | 165 | 126 | 98  | 71  | 152 | 133 | 112 | 91  | 64  | 202 | 181 |
| 84               | 231         | 155        | 203                           | 203 | 173 | 103 | 116 | 103 | 75  | 126 | 111 | 96  | 212 | 190 |
| 86               | 243         | 157        | 214                           | 214 | 182 | 112 | 110 | 105 | 79  | 170 | 149 | 125 | 223 | 200 |
| 88               | 255         | 60         | 225                           | 225 | 191 | 148 | 107 | 230 | 202 | 169 | 137 | 99  | 233 | 209 |
| 90               | 267         | 63         | 235                           | 235 | 200 | 155 | 112 | 240 | 211 | 177 | 143 | 104 | 244 | 219 |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |    |    |     | Log position |     |     |     |     |     |    |     |     |     | Gross Scribner Decimal C volume of 16-foot logs |     |     |     |     |     |    |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|----|----|-----|--------------|-----|-----|-----|-----|-----|----|-----|-----|-----|---|-----|-----|-----|-----|-----|----|
|                  |             |            | 9                             |     |     |     |     | 10  |     |    |    |     | 11           |     |     |     |     | 12  |    |     |     |     | 13  |     |     |     |     |     |    |
|                  |             |            | 2                             | 3   | 4   | 5   | 6   | 7   | 8   | 2  | 3  | 4   | 5            | 6   | 7   | 8   | 9   | 2   | 3  | 4   | 5   | 6   | 7   | 8   | 9   | 10  |     |     |    |
| 32               | 34          | 36         | 6                             | 28  | 26  | 23  | 20  | 17  | 13  | 10 | 28 | 26  | 23           | 19  | 16  | 11  | 10  | 28  | 26 | 23  | 19  | 16  | 11  | 10  | 28  | 26  |     |     |    |
| 34               | 35          | 36         | 7                             | 32  | 30  | 28  | 25  | 22  | 18  | 13 | 30 | 32  | 30           | 28  | 25  | 20  | 15  | 30  | 32 | 30  | 28  | 25  | 20  | 15  | 30  | 32  |     |     |    |
| 36               | 38          | 40         | 8                             | 40  | 37  | 34  | 29  | 25  | 20  | 15 | 40 | 42  | 38           | 32  | 28  | 22  | 16  | 40  | 42 | 38  | 32  | 28  | 22  | 16  | 40  | 42  |     |     |    |
| 40               | 42          | 44         | 10                            | 44  | 41  | 38  | 34  | 31  | 24  | 18 | 44 | 46  | 42           | 36  | 31  | 27  | 20  | 44  | 46 | 42  | 36  | 31  | 27  | 20  | 44  | 46  |     |     |    |
| 42               | 44          | 46         | 11                            | 45  | 42  | 38  | 32  | 28  | 22  | 16 | 46 | 50  | 46           | 42  | 36  | 31  | 24  | 46  | 50 | 46  | 42  | 36  | 31  | 24  | 46  | 50  |     |     |    |
| 44               | 46          | 48         | 12                            | 50  | 46  | 42  | 36  | 31  | 24  | 18 | 50 | 51  | 46           | 40  | 34  | 27  | 20  | 50  | 51 | 46  | 40  | 34  | 27  | 20  | 50  | 51  |     |     |    |
| 46               | 48          | 50         | 13                            | 51  | 50  | 46  | 41  | 36  | 27  | 20 | 51 | 50  | 46           | 41  | 36  | 27  | 20  | 51  | 50 | 46  | 41  | 36  | 27  | 20  | 51  | 50  |     |     |    |
| 48               | 50          | 52         | 15                            | 51  | 50  | 46  | 41  | 36  | 27  | 20 | 51 | 50  | 46           | 41  | 36  | 27  | 20  | 51  | 50 | 46  | 41  | 36  | 27  | 20  | 51  | 50  |     |     |    |
| 50               | 52          | 54         | 16                            | 57  | 51  | 50  | 46  | 41  | 36  | 27 | 20 | 57  | 51           | 46  | 41  | 36  | 27  | 20  | 57 | 51  | 46  | 41  | 36  | 27  | 20  | 57  |     |     |    |
| 52               | 54          | 56         | 17                            | 61  | 56  | 51  | 46  | 41  | 36  | 27 | 20 | 61  | 52           | 44  | 36  | 27  | 20  | 61  | 52 | 44  | 36  | 27  | 20  | 61  | 52  | 44  |     |     |    |
| 54               | 56          | 58         | 18                            | 72  | 66  | 56  | 48  | 39  | 29  | 27 | 20 | 72  | 66           | 56  | 48  | 39  | 29  | 20  | 72 | 66  | 56  | 48  | 39  | 29  | 20  | 72  |     |     |    |
| 56               | 58          | 60         | 19                            | 79  | 72  | 66  | 56  | 48  | 39  | 29 | 20 | 79  | 71           | 61  | 52  | 44  | 36  | 27  | 20 | 79  | 71  | 61  | 52  | 44  | 36  | 27  | 20  |     |    |
| 58               | 60          | 62         | 21                            | 92  | 85  | 78  | 71  | 66  | 57  | 46 | 36 | 92  | 85           | 77  | 67  | 57  | 46  | 36  | 27 | 92  | 85  | 77  | 67  | 57  | 46  | 36  | 27  |     |    |
| 60               | 62          | 64         | 23                            | 92  | 88  | 81  | 71  | 61  | 52  | 41 | 31 | 92  | 88           | 81  | 71  | 61  | 52  | 41  | 31 | 92  | 88  | 81  | 71  | 61  | 52  | 41  | 31  |     |    |
| 62               | 64          | 66         | 25                            | 99  | 91  | 83  | 71  | 61  | 52  | 41 | 31 | 99  | 91           | 83  | 71  | 61  | 52  | 41  | 31 | 99  | 91  | 83  | 71  | 61  | 52  | 41  | 31  |     |    |
| 64               | 66          | 68         | 27                            | 106 | 97  | 88  | 77  | 65  | 53  | 40 | 30 | 106 | 99           | 90  | 82  | 73  | 61  | 50  | 38 | 106 | 99  | 90  | 82  | 73  | 61  | 50  | 38  |     |    |
| 66               | 68          | 70         | 28                            | 114 | 104 | 95  | 82  | 70  | 57  | 42 | 30 | 114 | 106          | 97  | 88  | 77  | 66  | 53  | 41 | 30  | 114 | 106 | 97  | 88  | 77  | 66  | 53  | 41  |    |
| 68               | 70          | 72         | 30                            | 121 | 111 | 101 | 87  | 75  | 61  | 45 | 30 | 123 | 113          | 104 | 94  | 83  | 70  | 56  | 43 | 30  | 123 | 113 | 104   | 94  | 83  | 70  | 56  | 43  |    |
| 70               | 72          | 74         | 32                            | 129 | 119 | 108 | 93  | 79  | 65  | 48 | 30 | 131 | 110          | 106 | 94  | 88  | 75  | 60  | 45 | 30  | 131 | 110 | 106   | 94  | 88  | 75  | 60  | 45  |    |
| 72               | 74          | 76         | 35                            | 138 | 126 | 115 | 100 | 85  | 69  | 52 | 30 | 141 | 128          | 118 | 106 | 94  | 80  | 65  | 50 | 30  | 141 | 132 | 121   | 113 | 99  | 87  | 76  | 30  |    |
| 74               | 76          | 78         | 37                            | 146 | 134 | 122 | 106 | 90  | 74  | 55 | 30 | 149 | 137          | 125 | 113 | 100 | 85  | 69  | 52 | 30  | 149 | 137 | 125   | 113 | 100 | 85  | 69  | 52  |    |
| 76               | 78          | 80         | 39                            | 155 | 142 | 130 | 112 | 96  | 78  | 58 | 30 | 158 | 145          | 132 | 120 | 106 | 90  | 73  | 56 | 50  | 30  | 158 | 145   | 132 | 120 | 106 | 90  | 73  | 56 |
| 78               | 80          | 82         | 41                            | 163 | 150 | 137 | 118 | 101 | 83  | 62 | 30 | 166 | 153          | 139 | 127 | 111 | 95  | 77  | 59 | 52  | 30  | 166 | 153   | 139 | 127 | 111 | 95  | 77  | 59 |
| 80               | 82          | 84         | 43                            | 174 | 159 | 145 | 126 | 107 | 88  | 65 | 30 | 177 | 162          | 148 | 135 | 119 | 101 | 82  | 62 | 56  | 30  | 177 | 162   | 148 | 135 | 119 | 101 | 82  | 62 |
| 82               | 84          | 86         | 45                            | 183 | 168 | 153 | 132 | 113 | 92  | 69 | 30 | 187 | 171          | 156 | 142 | 125 | 107 | 86  | 66 | 56  | 30  | 187 | 171   | 156 | 142 | 125 | 107 | 86  | 56 |
| 84               | 86          | 88         | 47                            | 193 | 177 | 161 | 139 | 119 | 98  | 73 | 30 | 196 | 180          | 165 | 150 | 132 | 112 | 91  | 70 | 197 | 185 | 169 | 150   | 132 | 112 | 91  | 70  | 197 |    |
| 86               | 88          | 90         | 49                            | 202 | 186 | 169 | 147 | 125 | 102 | 77 | 30 | 206 | 189          | 172 | 157 | 139 | 118 | 96  | 74 | 207 | 194 | 177 | 157   | 139 | 118 | 96  | 74  | 207 |    |
| 88               | 90          | 92         | 51                            | 213 | 195 | 178 | 154 | 131 | 108 | 80 | 30 | 216 | 199          | 182 | 165 | 145 | 124 | 101 | 77 | 217 | 204 | 186 | 165   | 145 | 124 | 101 | 77  | 217 |    |
| 90               | 92          | 94         | 53                            | 224 | 208 | 187 | 162 | 139 | 113 | 85 | 30 | 228 | 209          | 192 | 174 | 153 | 130 | 107 | 81 | 229 | 215 | 196 | 174   | 153 | 130 | 107 | 81  | 229 |    |
| 92               | 94          | 96         | 55                            | 234 | 215 | 196 | 169 | 145 | 119 | 90 | 30 | 239 | 219          | 200 | 182 | 161 | 137 | 111 | 85 | 239 | 225 | 205 | 182   | 161 | 137 | 111 | 85  | 239 |    |
| 94               | 96          | 98         | 57                            | 245 | 225 | 205 | 177 | 152 | 125 | 93 | 30 | 250 | 229          | 210 | 191 | 168 | 143 | 116 | 89 | 250 | 235 | 215 | 201   | 177 | 156 | 113 | 87  | 250 |    |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     | Log position |     |     |     |     | Gross Scribner Decimal C volume of 16-foot logs |     |     |     |    |    |    |    |    |    |    |    |    |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|--------------|-----|-----|-----|-----|---|-----|-----|-----|----|----|----|----|----|----|----|----|----|
|                  |             |            | 3                             |     | 4   |     | 5   |              | 6   |     | 3   |     | 4   |     | 5   |     | 6  |    | 3  |    | 4  |    | 5  |    |    |
|                  |             |            | 2                             | 3   | 2   | 3   | 2   | 3            | 2   | 3   | 2   | 3   | 2   | 3   | 2   | 3   | 2  | 3  | 2  | 3  | 2  | 3  | 2  | 3  |    |
| 14               | 5           | 3          | 4                             | 5   | 6   | 4   | 7   | 6            | 5   | 10  | 6   | 5   | 10  | 11  | 12  | 11  | 10 | 11 | 12 | 11 | 10 | 11 | 12 | 11 |    |
| 16               | 6           | 3          | 5                             | 6   | 7   | 5   | 8   | 7            | 6   | 11  | 9   | 8   | 11  | 14  | 15  | 11  | 10 | 11 | 12 | 11 | 10 | 11 | 12 | 11 |    |
| 18               | 9           | 3          | 6                             | 8   | 9   | 7   | 11  | 11           | 10  | 13  | 9   | 10  | 16  | 11  | 17  | 15  | 11 | 10 | 11 | 12 | 11 | 10 | 11 | 12 |    |
| 20               | 11          | 3          | 3                             | 9   | 6   | 5   | 11  | 11           | 10  | 16  | 13  | 9   | 16  | 11  | 17  | 13  | 9  | 8  | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 22               | 14          | 3          | 3                             | 9   | 7   | 5   | 11  | 11           | 10  | 16  | 13  | 9   | 16  | 11  | 17  | 13  | 9  | 8  | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 24               | 17          | 3          | 3                             | 9   | 11  | 9   | 14  | 11           | 7   | 14  | 11  | 7   | 14  | 17  | 15  | 11  | 10 | 11 | 12 | 11 | 10 | 11 | 12 | 11 |    |
| 26               | 20          | 2          | 4                             | 10  | 16  | 10  | 16  | 13           | 9   | 20  | 15  | 10  | 20  | 17  | 21  | 15  | 11 | 10 | 11 | 12 | 11 | 10 | 11 | 12 |    |
| 28               | 24          | 5          | 18                            | 12  | 20  | 12  | 20  | 15           | 10  | 23  | 18  | 12  | 20  | 18  | 21  | 17  | 11 | 10 | 11 | 12 | 11 | 10 | 11 | 12 |    |
| 30               | 27          | 6          | 22                            | 14  | 23  | 17  | 12  | 24           | 20  | 20  | 15  | 11  | 21  | 18  | 23  | 18  | 11 | 10 | 11 | 12 | 11 | 10 | 11 | 12 |    |
| 32               | 31          | 7          | 25                            | 16  | 26  | 16  | 26  | 21           | 16  | 30  | 24  | 16  | 26  | 23  | 27  | 20  | 15 | 10 | 11 | 12 | 11 | 10 | 11 | 12 |    |
| 34               | 36          | 8          | 28                            | 19  | 32  | 21  | 34  | 27           | 18  | 30  | 30  | 23  | 30  | 31  | 30  | 23  | 16 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 36               | 40          | 9          | 32                            | 21  | 36  | 24  | 38  | 30           | 21  | 40  | 34  | 21  | 36  | 38  | 30  | 21  | 18 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 38               | 46          | 10         | 40                            | 27  | 43  | 34  | 23  | 45           | 38  | 40  | 29  | 20  | 40  | 40  | 35  | 27  | 19 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 40               | 51          | 11         | 40                            | 27  | 47  | 37  | 26  | 47           | 37  | 40  | 28  | 23  | 40  | 40  | 35  | 27  | 19 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 42               | 57          | 12         | 52                            | 31  | 52  | 45  | 31  | 56           | 45  | 50  | 31  | 29  | 50  | 50  | 45  | 36  | 25 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 44               | 62          | 14         | 62                            | 44  | 62  | 56  | 45  | 62           | 56  | 60  | 45  | 39  | 62  | 62  | 56  | 45  | 36 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 46               | 69          | 15         | 67                            | 58  | 67  | 58  | 58  | 67           | 58  | 60  | 58  | 45  | 67  | 67  | 58  | 45  | 36 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 48               | 75          | 17         | 75                            | 63  | 75  | 63  | 63  | 75           | 63  | 66  | 56  | 43  | 75  | 75  | 66  | 56  | 45 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 50               | 82          | 18         | 69                            | 53  | 82  | 53  | 53  | 71           | 61  | 71  | 61  | 47  | 71  | 71  | 61  | 54  | 45 | 30 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |
| 52               | 89          | 20         | 74                            | 58  | 89  | 58  | 58  | 74           | 61  | 81  | 61  | 53  | 81  | 81  | 61  | 53  | 45 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 54               | 96          | 22         | 87                            | 68  | 96  | 68  | 68  | 87           | 71  | 91  | 71  | 61  | 91  | 91  | 71  | 61  | 54 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 56               | 103         | 24         | 103                           | 87  | 103 | 87  | 87  | 103          | 87  | 103 | 94  | 83  | 94  | 94  | 83  | 74  | 54 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 58               | 112         | 25         | 112                           | 73  | 112 | 73  | 73  | 98           | 83  | 98  | 83  | 74  | 98  | 98  | 83  | 74  | 61 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 60               | 119         | 28         | 101                           | 79  | 101 | 79  | 79  | 105          | 89  | 105 | 89  | 71  | 105   | 105 | 89  | 71  | 61 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 62               | 127         | 29         | 127                           | 74  | 127 | 74  | 74  | 112          | 95  | 112 | 95  | 77  | 112   | 112 | 95  | 77  | 61 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 64               | 135         | 31         | 135                           | 74  | 135 | 74  | 74  | 127          | 108 | 127 | 108 | 84  | 127   | 127 | 108 | 84  | 61 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 66               | 145         | 34         | 145                           | 74  | 145 | 74  | 74  | 136          | 116 | 136 | 116 | 94  | 145   | 145 | 116 | 94  | 61 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 68               | 155         | 36         | 155                           | 74  | 155 | 74  | 74  | 164          | 123 | 164 | 123 | 95  | 155   | 155 | 123 | 95  | 61 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 70               | 164         | 38         | 191                           | 162 | 164 | 162 | 162 | 125          | 91  | 195 | 171 | 144 | 162   | 162 | 125 | 91  | 61 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 72               | 174         | 40         | 174                           | 162 | 174 | 162 | 162 | 130          | 100 | 174 | 107 | 77  | 174   | 174 | 130 | 100 | 61 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 74               | 184         | 43         | 184                           | 162 | 184 | 162 | 162 | 128          | 107 | 184 | 107 | 77  | 184   | 184 | 128 | 107 | 61 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 76               | 194         | 45         | 194                           | 162 | 194 | 162 | 162 | 146          | 112 | 194 | 112 | 82  | 194   | 194 | 146 | 112 | 61 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 78               | 205         | 48         | 205                           | 161 | 205 | 161 | 161 | 154          | 119 | 205 | 119 | 86  | 161   | 161 | 154 | 119 | 61 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 80               | 216         | 50         | 216                           | 162 | 216 | 162 | 162 | 162          | 125 | 91  | 195 | 171 | 144   | 162 | 162 | 125 | 91 | 61 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |
| 82               | 227         | 53         | 227                           | 162 | 227 | 162 | 162 | 170          | 131 | 227 | 131 | 96  | 205   | 205 | 170 | 131 | 61 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 84               | 239         | 55         | 239                           | 162 | 239 | 162 | 162 | 171          | 129 | 239 | 129 | 101 | 216   | 216 | 171 | 129 | 61 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 86               | 251         | 59         | 251                           | 162 | 251 | 162 | 162 | 168          | 145 | 251 | 145 | 105 | 225   | 225 | 168 | 145 | 61 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 88               | 263         | 62         | 263                           | 162 | 263 | 162 | 162 | 232          | 197 | 263 | 152 | 111 | 238   | 238 | 197 | 152 | 61 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |
| 90               | 275         | 65         | 275                           | 162 | 275 | 162 | 162 | 243          | 206 | 275 | 159 | 116 | 249   | 249 | 206 | 159 | 61 | 11 | 10 | 11 | 12 | 11 | 10 | 11 |    |

| D.b.h.<br>inches                                | Butt<br>log<br>top<br>log | Tree height in number of logs |     |     |     |     |     |     |    |    |    | Log position |    |    |    |    |    |    |    |    |    |    |   |   |    |
|---|---------------------------|-------------------------------|-----|-----|-----|-----|-----|-----|----|----|----|--------------|----|----|----|----|----|----|----|----|----|----|---|---|----|
|   |                           | 9                             |     |     |     |     | 10  |     |    |    |    | 11           |    |    |    |    | 12 |    |    |    |    |    |   |   |    |
|   |                           | 2                             | 3   | 4   | 5   | 6   | 7   | 8   | 2  | 3  | 4  | 5            | 6  | 7  | 8  | 9  | 2  | 3  | 4  | 5  | 6  | 7  | 8 | 9 | 10 |
| Cross Scribner Decimal C volume of 16-foot logs |                           |                               |     |     |     |     |     |     |    |    |    |              |    |    |    |    |    |    |    |    |    |    |   |   |    |
| 30  | 27                        | 6                             | 25  | 23  | 21  | 18  | 15  | 12  | 9  | 14 | 11 | 16           | 13 | 18 | 15 | 12 | 10 | 11 | 12 | 10 | 8  | 6  | 5 | 4 | 3  |
| 32  | 31                        | 8                             | 29  | 27  | 24  | 20  | 17  | 14  | 11 | 14 | 11 | 16           | 13 | 18 | 15 | 12 | 10 | 11 | 12 | 10 | 8  | 6  | 5 | 4 | 3  |
| 34  | 36                        | 9                             | 33  | 31  | 28  | 23  | 20  | 17  | 14 | 14 | 11 | 16           | 13 | 18 | 15 | 12 | 10 | 11 | 12 | 10 | 8  | 6  | 5 | 4 | 3  |
| 36  | 39                        | 10                            | 38  | 34  | 31  | 27  | 22  | 18  | 15 | 14 | 11 | 16           | 13 | 18 | 15 | 12 | 10 | 11 | 12 | 10 | 8  | 6  | 5 | 4 | 3  |
| 38  | 42                        | 11                            | 48  | 43  | 39  | 33  | 28  | 23  | 16 | 14 | 11 | 16           | 13 | 18 | 15 | 12 | 10 | 11 | 12 | 10 | 8  | 6  | 5 | 4 | 3  |
| 40  | 42                        | 12                            | 52  | 47  | 43  | 37  | 31  | 26  | 19 | 14 | 11 | 16           | 13 | 18 | 15 | 12 | 10 | 11 | 12 | 10 | 8  | 6  | 5 | 4 | 3  |
| 42  | 44                        | 13                            | 57  | 52  | 48  | 44  | 35  | 28  | 21 | 15 | 12 | 16           | 13 | 18 | 15 | 12 | 10 | 11 | 12 | 10 | 8  | 6  | 5 | 4 | 3  |
| 44  | 46                        | 14                            | 69  | 63  | 58  | 52  | 45  | 38  | 31 | 23 | 18 | 14           | 11 | 16 | 13 | 18 | 15 | 12 | 10 | 11 | 12 | 10 | 8 | 6 | 5  |
| 46  | 48                        | 15                            | 69  | 63  | 58  | 52  | 45  | 38  | 31 | 23 | 18 | 14           | 11 | 16 | 13 | 18 | 15 | 12 | 10 | 11 | 12 | 10 | 8 | 6 | 5  |
| 48  | 51                        | 17                            | 69  | 63  | 58  | 52  | 45  | 38  | 31 | 23 | 18 | 14           | 11 | 16 | 13 | 18 | 15 | 12 | 10 | 11 | 12 | 10 | 8 | 6 | 5  |
| 50  | 52                        | 18                            | 75  | 69  | 63  | 54  | 46  | 37  | 27 | 20 | 15 | 10           | 8  | 7  | 6  | 5  | 4  | 3  | 2  | 1  | 0  | 0  | 0 | 0 | 0  |
| 52  | 54                        | 20                            | 82  | 74  | 68  | 61  | 53  | 49  | 40 | 32 | 26 | 19           | 14 | 11 | 10 | 9  | 8  | 7  | 6  | 5  | 4  | 3  | 2 | 1 | 0  |
| 54  | 56                        | 22                            | 88  | 81  | 74  | 63  | 56  | 51  | 44 | 35 | 27 | 20           | 15 | 10 | 9  | 8  | 7  | 6  | 5  | 4  | 3  | 2  | 1 | 0 | 0  |
| 56  | 58                        | 24                            | 96  | 87  | 79  | 68  | 61  | 53  | 47 | 35 | 27 | 20           | 15 | 10 | 9  | 8  | 7  | 6  | 5  | 4  | 3  | 2  | 1 | 0 | 0  |
| 58  | 60                        | 25                            | 103 | 94  | 86  | 74  | 63  | 55  | 47 | 37 | 27 | 20           | 15 | 10 | 9  | 8  | 7  | 6  | 5  | 4  | 3  | 2  | 1 | 0 | 0  |
| 60  | 62                        | 119                           | 110 | 101 | 92  | 79  | 67  | 55  | 40 | 32 | 26 | 19           | 14 | 11 | 10 | 9  | 8  | 7  | 6  | 5  | 4  | 3  | 2 | 1 | 0  |
| 62  | 64                        | 127                           | 129 | 118 | 98  | 84  | 72  | 60  | 43 | 32 | 26 | 19           | 14 | 11 | 10 | 9  | 8  | 7  | 6  | 5  | 4  | 3  | 2 | 1 | 0  |
| 64  | 66                        | 135                           | 131 | 125 | 115 | 104 | 89  | 76  | 62 | 46 | 32 | 27           | 21 | 16 | 10 | 9  | 8  | 7  | 6  | 5  | 4  | 3  | 2 | 1 | 0  |
| 66  | 68                        | 145                           | 145 | 135 | 123 | 112 | 96  | 82  | 66 | 49 | 36 | 27           | 21 | 16 | 11 | 10 | 9  | 8  | 7  | 6  | 5  | 4  | 3 | 2 | 1  |
| 68  | 70                        | 155                           | 156 | 144 | 131 | 120 | 102 | 87  | 71 | 52 | 37 | 27           | 21 | 16 | 11 | 10 | 9  | 8  | 7  | 6  | 5  | 4  | 3 | 2 | 1  |
| 70  | 72                        | 164                           | 158 | 153 | 139 | 127 | 109 | 92  | 75 | 55 | 40 | 32           | 26 | 19 | 14 | 11 | 10 | 9  | 8  | 7  | 6  | 5  | 4 | 3 | 2  |
| 72  | 74                        | 174                           | 160 | 159 | 135 | 125 | 115 | 99  | 81 | 61 | 44 | 32           | 26 | 19 | 14 | 11 | 10 | 9  | 8  | 7  | 6  | 5  | 4 | 3 | 2  |
| 74  | 76                        | 184                           | 173 | 169 | 155 | 142 | 122 | 105 | 86 | 64 | 47 | 35           | 27 | 21 | 16 | 11 | 10 | 9  | 8  | 7  | 6  | 5  | 4 | 3 | 2  |
| 76  | 78                        | 194                           | 185 | 179 | 164 | 149 | 129 | 111 | 90 | 68 | 48 | 36           | 27 | 21 | 16 | 11 | 10 | 9  | 8  | 7  | 6  | 5  | 4 | 3 | 2  |
| 78  | 80                        | 205                           | 189 | 173 | 158 | 136 | 117 | 96  | 72 | 52 | 37 | 27           | 21 | 16 | 11 | 10 | 9  | 8  | 7  | 6  | 5  | 4  | 3 | 2 | 1  |
| 80  | 82                        | 216                           | 199 | 182 | 166 | 143 | 123 | 101 | 76 | 50 | 34 | 24           | 18 | 12 | 8  | 6  | 5  | 4  | 3  | 2  | 1  | 0  | 0 | 0 | 0  |
| 82  | 84                        | 227                           | 200 | 192 | 174 | 151 | 129 | 106 | 79 | 52 | 34 | 24           | 18 | 12 | 8  | 6  | 5  | 4  | 3  | 2  | 1  | 0  | 0 | 0 | 0  |
| 84  | 86                        | 239                           | 220 | 202 | 184 | 161 | 139 | 111 | 84 | 56 | 36 | 26           | 19 | 13 | 9  | 6  | 5  | 4  | 3  | 2  | 1  | 0  | 0 | 0 | 0  |
| 86  | 88                        | 251                           | 230 | 211 | 193 | 166 | 143 | 117 | 87 | 59 | 37 | 27           | 21 | 15 | 11 | 8  | 6  | 5  | 4  | 3  | 2  | 1  | 0 | 0 | 0  |
| 88  | 90                        | 263                           | 242 | 222 | 202 | 175 | 150 | 123 | 92 | 55 | 34 | 24           | 18 | 13 | 9  | 6  | 5  | 4  | 3  | 2  | 1  | 0  | 0 | 0 | 0  |
| 90  | 92                        | 275                           | 232 | 212 | 183 | 157 | 128 | 96  | 60 | 36 | 26 | 19           | 13 | 9  | 6  | 5  | 4  | 3  | 2  | 1  | 0  | 0  | 0 | 0 | 0  |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     |     |     | Log Position<br>Gross Scribner Decimal C volume of 16-foot logs |     |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|
|                  |             |            | 3                             |     |     | 4   |     |     | 5   |     |     | 6   |     |     |   |     |
|                  |             |            | 2                             | 2   | 3   | 2   | 3   | 4   | 2   | 3   | 4   | 2   | 3   | 4   |   |     |
| 14               | 5           | 3          | 4                             | 6   | 5   | 8   | 6   | 5   | 10  | 8   | 6   | 11  | 9   | 6   | 10  |     |
| 16               | 7           | 3          | 5                             | 6   | 7   | 10  | 12  | 9   | 15  | 13  | 9   | 15  | 12  | 8   | 13  |     |
| 18               | 9           | 3          | 8                             | 9   | 7   | 12  | 14  | 9   | 15  | 13  | 9   | 18  | 14  | 9   | 17  |     |
| 20               | 11          | 3          | 10                            | 12  | 7   | 15  | 14  | 9   | 18  | 15  | 12  | 21  | 18  | 14  | 15  |     |
| 22               | 14          | 3          | 12                            | 14  | 9   | 15  | 16  | 13  | 18  | 15  | 12  | 21  | 18  | 14  | 17  |     |
| 24               | 17          | 4          | 12                            | 14  | 9   | 15  | 16  | 11  | 20  | 16  | 11  | 21  | 18  | 14  | 17  |     |
| 26               | 21          | 4          | 13                            | 16  | 11  | 18  | 17  | 13  | 20  | 16  | 11  | 21  | 18  | 14  | 17  |     |
| 28               | 24          | 5          | 19                            | 12  | 19  | 28  | 26  | 19  | 37  | 31  | 24  | 17  | 19  | 15  | 20  |     |
| 30               | 28          | 6          | 22                            | 15  | 24  | 18  | 12  | 25  | 21  | 16  | 11  | 22  | 18  | 15  | 18  |     |
| 32               | 33          | 7          | 25                            | 17  | 28  | 21  | 14  | 29  | 24  | 21  | 15  | 29  | 24  | 20  | 17  |     |
| 34               | 37          | 8          | 29                            | 19  | 31  | 24  | 17  | 33  | 37  | 31  | 24  | 28  | 22  | 18  | 13  |     |
| 36               | 42          | 9          | 33                            | 22  | 35  | 28  | 19  | 37  | 41  | 35  | 27  | 31  | 25  | 20  | 15  |     |
| 38               | 47          | 10         | 37                            | 25  | 40  | 31  | 21  | 41  | 45  | 35  | 27  | 42  | 37  | 31  | 22  |     |
| 40               | 53          | 11         | 40                            | 28  | 44  | 35  | 24  | 46  | 49  | 39  | 30  | 40  | 34  | 28  | 20  |     |
| 42               | 59          | 13         | 44                            | 32  | 54  | 42  | 30  | 56  | 56  | 48  | 37  | 47  | 41  | 37  | 25  |     |
| 44               | 64          | 14         | 50                            | 40  | 60  | 52  | 42  | 62  | 62  | 53  | 40  | 52  | 46  | 39  | 23  |     |
| 46               | 71          | 16         | 56                            | 45  | 66  | 56  | 45  | 66  | 66  | 57  | 47  | 65  | 58  | 43  | 25  |     |
| 48               | 77          | 17         | 59                            | 50  | 70  | 59  | 50  | 70  | 70  | 61  | 51  | 71  | 63  | 55  | 28  |     |
| 50               | 84          | 19         | 71                            | 55  | 75  | 63  | 59  | 74  | 63  | 58  | 56  | 76  | 66  | 56  | 45  |     |
| 52               | 91          | 21         | 77                            | 60  | 83  | 65  | 55  | 80  | 68  | 60  | 53  | 83  | 72  | 60  | 48  |     |
| 54               | 99          | 23         | 83                            | 55  | 90  | 70  | 60  | 93  | 80  | 72  | 64  | 91  | 80  | 68  | 50  |     |
| 56               | 107         | 24         | 90                            | 50  | 107 | 75  | 60  | 98  | 85  | 75  | 70  | 98  | 88  | 76  | 50  |     |
| 58               | 114         | 26         | 98                            | 75  | 114 | 100 | 86  | 100 | 98  | 86  | 86  | 103 | 90  | 76  | 52  |     |
| 60               | 123         | 28         | 108                           | 92  | 120 | 98  | 71  | 111 | 97  | 81  | 66  | 113 | 101 | 88  | 62  |     |
| 62               | 132         | 31         | 115                           | 98  | 122 | 104 | 81  | 115 | 104 | 86  | 70  | 121 | 108 | 80  | 68  |     |
| 64               | 140         | 33         | 122                           | 104 | 132 | 112 | 80  | 126 | 110 | 92  | 75  | 129 | 115 | 95  | 71  |     |
| 66               | 150         | 35         | 130                           | 112 | 150 | 116 | 84  | 135 | 118 | 99  | 81  | 137 | 124 | 108 | 73  |     |
| 68               | 159         | 37         | 139                           | 119 | 159 | 121 | 92  | 143 | 125 | 106 | 92  | 147 | 131 | 114 | 75  |     |
| 70               | 169         | 40         | 149                           | 126 | 167 | 129 | 94  | 152 | 133 | 112 | 91  | 155 | 139 | 120 | 79  |     |
| 72               | 179         | 42         | 158                           | 134 | 176 | 140 | 76  | 162 | 142 | 119 | 97  | 164 | 147 | 128 | 71  |     |
| 74               | 189         | 45         | 167                           | 142 | 184 | 150 | 110 | 171 | 152 | 120 | 102 | 173 | 156 | 135 | 88  |     |
| 76               | 201         | 47         | 177                           | 150 | 194 | 166 | 84  | 180 | 158 | 133 | 108 | 183 | 165 | 143 | 93  |     |
| 78               | 211         | 50         | 186                           | 158 | 203 | 175 | 121 | 190 | 160 | 113 | 82  | 193 | 173 | 150 | 97  |     |
| 80               | 223         | 52         | 196                           | 167 | 223 | 180 | 94  | 201 | 176 | 148 | 120 | 204 | 183 | 158 | 102   |     |
| 82               | 234         | 55         | 207                           | 176 | 234 | 194 | 104 | 212 | 186 | 156 | 126 | 216 | 193 | 167 | 106   |     |
| 84               | 246         | 58         | 217                           | 184 | 228 | 194 | 150 | 222 | 195 | 163 | 132 | 226 | 175 | 151 | 106   |     |
| 86               | 258         | 61         | 228                           | 194 | 238 | 203 | 157 | 234 | 203 | 172 | 139 | 237 | 213 | 184 | 107   |     |
| 88               | 270         | 64         | 238                           | 203 | 250 | 213 | 157 | 244 | 213 | 180 | 116 | 248 | 222 | 193 | 108   |     |
| 90               | 283         | 67         | 250                           | 213 | 250 | 213 | 165 | 119 | 255 | 223 | 189 | 153 | 260 | 233 | 203   | 106 |

| D.b.h.<br>inches                                |     | Top<br>log |     | Tree height in number of logs |     |     |     |     |    |     |     |     |     | Log position |     |     |    |    |    |    |    |    |    |    |
|---|-----|------------|-----|-------------------------------|-----|-----|-----|-----|----|-----|-----|-----|-----|--------------|-----|-----|----|----|----|----|----|----|----|----|
|   |     |            |     | 9                             |     |     |     |     | 10 |     |     |     |     | 11           |     |     |    |    | 12 |    |    |    |    |    |
|   |     |            |     | 2                             | 3   | 4   | 5   | 6   | 7  | 8   | 2   | 3   | 4   | 5            | 6   | 7   | 8  | 9  | 2  | 3  | 4  | 5  | 6  | 7  |
| Gross Scribner Decimal C volume of 16-foot logs |     |            |     |                               |     |     |     |     |    |     |     |     |     |              |     |     |    |    |    |    |    |    |    |    |
| 30  | 28  | 6          | 26  | 24                            | 22  | 18  | 16  | 12  | 9  | 11  | 12  | 10  | 8   | 6            | 5   | 4   | 3  | 2  | 1  | 1  | 1  | 1  | 1  | 1  |
| 32  | 33  | 7          | 30  | 27                            | 25  | 21  | 18  | 14  | 11 | 12  | 10  | 8   | 6   | 5            | 4   | 3   | 2  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
| 34  | 34  | 8          | 34  | 31                            | 29  | 24  | 20  | 17  | 12 | 14  | 11  | 10  | 8   | 6            | 5   | 4   | 3  | 2  | 1  | 1  | 1  | 1  | 1  | 1  |
| 36  | 32  | 9          | 39  | 36                            | 32  | 27  | 23  | 19  | 14 | 15  | 12  | 10  | 8   | 6            | 5   | 4   | 3  | 2  | 1  | 1  | 1  | 1  | 1  | 1  |
| 38  | 47  | 10         | 43  | 40                            | 36  | 31  | 26  | 21  | 15 | 14  | 11  | 10  | 8   | 6            | 5   | 4   | 3  | 2  | 1  | 1  | 1  | 1  | 1  | 1  |
| 40  | 53  | 11         | 48  | 44                            | 40  | 35  | 33  | 28  | 20 | 19  | 18  | 14  | 12  | 10           | 8   | 6   | 5  | 4  | 3  | 2  | 1  | 1  | 1  | 1  |
| 42  | 59  | 13         | 54  | 49                            | 45  | 38  | 32  | 26  | 22 | 21  | 18  | 14  | 12  | 10           | 8   | 6   | 5  | 4  | 3  | 2  | 1  | 1  | 1  | 1  |
| 44  | 64  | 14         | 59  | 54                            | 49  | 42  | 36  | 30  | 22 | 21  | 18  | 14  | 12  | 10           | 8   | 6   | 5  | 4  | 3  | 2  | 1  | 1  | 1  | 1  |
| 46  | 71  | 16         | 65  | 59                            | 54  | 46  | 40  | 32  | 24 | 21  | 18  | 14  | 12  | 10           | 8   | 6   | 5  | 4  | 3  | 2  | 1  | 1  | 1  | 1  |
| 48  | 77  | 17         | 71  | 65                            | 59  | 51  | 43  | 35  | 26 | 21  | 18  | 14  | 12  | 10           | 8   | 6   | 5  | 4  | 3  | 2  | 1  | 1  | 1  | 1  |
| 50  | 84  | 19         | 78  | 71                            | 65  | 55  | 47  | 38  | 28 | 21  | 18  | 14  | 12  | 10           | 8   | 6   | 5  | 4  | 3  | 2  | 1  | 1  | 1  | 1  |
| 52  | 91  | 21         | 85  | 77                            | 71  | 60  | 51  | 45  | 31 | 21  | 18  | 14  | 12  | 10           | 8   | 6   | 5  | 4  | 3  | 2  | 1  | 1  | 1  | 1  |
| 54  | 99  | 23         | 91  | 83                            | 76  | 65  | 55  | 45  | 33 | 23  | 18  | 14  | 12  | 10           | 8   | 6   | 5  | 4  | 3  | 2  | 1  | 1  | 1  | 1  |
| 56  | 107 | 24         | 96  | 90                            | 82  | 70  | 60  | 49  | 37 | 27  | 21  | 18  | 14  | 12           | 10  | 8   | 6  | 5  | 4  | 3  | 2  | 1  | 1  | 1  |
| 58  | 114 | 26         | 105 | 97                            | 88  | 76  | 64  | 52  | 40 | 30  | 21  | 18  | 14  | 12           | 10  | 8   | 6  | 5  | 4  | 3  | 2  | 1  | 1  | 1  |
| 60  | 123 | 28         | 114 | 104                           | 95  | 81  | 69  | 56  | 42 | 31  | 21  | 18  | 14  | 12           | 10  | 8   | 6  | 5  | 4  | 3  | 2  | 1  | 1  | 1  |
| 62  | 132 | 31         | 121 | 111                           | 102 | 87  | 74  | 60  | 45 | 32  | 23  | 18  | 14  | 12           | 10  | 8   | 6  | 5  | 4  | 3  | 2  | 1  | 1  | 1  |
| 64  | 140 | 33         | 129 | 118                           | 108 | 92  | 78  | 64  | 48 | 30  | 20  | 19  | 14  | 12           | 10  | 8   | 6  | 5  | 4  | 3  | 2  | 1  | 1  | 1  |
| 66  | 150 | 35         | 139 | 127                           | 116 | 99  | 84  | 69  | 51 | 30  | 129 | 118 | 107 | 94           | 80  | 65  | 59 | 53 | 49 | 43 | 39 | 35 | 31 | 27 |
| 68  | 159 | 37         | 147 | 135                           | 123 | 105 | 90  | 73  | 54 | 36  | 125 | 114 | 100 | 85           | 69  | 52  | 46 | 41 | 36 | 31 | 26 | 21 | 17 | 13 |
| 70  | 169 | 40         | 155 | 142                           | 130 | 112 | 96  | 79  | 59 | 38  | 133 | 121 | 106 | 91           | 73  | 56  | 50 | 44 | 38 | 32 | 27 | 21 | 16 | 11 |
| 72  | 179 | 42         | 165 | 151                           | 138 | 119 | 102 | 84  | 63 | 168 | 145 | 130 | 110 | 128          | 114 | 96  | 79 | 60 | 54 | 48 | 42 | 36 | 30 | 24 |
| 74  | 189 | 45         | 174 | 160                           | 145 | 126 | 108 | 88  | 66 | 177 | 163 | 148 | 125 | 119          | 109 | 102 | 82 | 64 | 58 | 52 | 46 | 40 | 34 | 28 |
| 76  | 201 | 47         | 184 | 169                           | 154 | 133 | 114 | 94  | 70 | 188 | 172 | 157 | 132 | 126          | 108 | 88  | 73 | 57 | 51 | 45 | 39 | 33 | 27 | 21 |
| 78  | 211 | 50         | 194 | 178                           | 162 | 140 | 120 | 98  | 74 | 198 | 181 | 160 | 130 | 121          | 103 | 87  | 71 | 52 | 46 | 40 | 34 | 28 | 22 | 16 |
| 80  | 223 | 52         | 205 | 188                           | 171 | 148 | 127 | 103 | 78 | 209 | 192 | 174 | 158 | 140          | 120 | 97  | 75 | 59 | 53 | 47 | 41 | 35 | 29 | 23 |
| 82  | 234 | 55         | 216 | 198                           | 180 | 156 | 134 | 110 | 82 | 220 | 202 | 184 | 167 | 148          | 126 | 102 | 79 | 60 | 54 | 48 | 42 | 36 | 30 | 24 |
| 84  | 246 | 58         | 226 | 207                           | 189 | 163 | 141 | 115 | 86 | 231 | 212 | 193 | 175 | 154          | 132 | 107 | 83 | 63 | 57 | 51 | 45 | 39 | 33 | 27 |
| 86  | 258 | 61         | 238 | 218                           | 199 | 172 | 148 | 120 | 95 | 243 | 223 | 202 | 184 | 162          | 139 | 114 | 87 | 67 | 61 | 55 | 49 | 43 | 37 | 31 |
| 88  | 270 | 64         | 249 | 228                           | 208 | 180 | 154 | 126 | 95 | 253 | 233 | 212 | 192 | 171          | 155 | 119 | 91 | 71 | 65 | 59 | 53 | 47 | 41 | 35 |
| 90  | 283 | 67         | 261 | 240                           | 218 | 189 | 162 | 132 | 99 | 267 | 244 | 222 | 202 | 178          | 152 | 125 | 95 | 71 | 65 | 59 | 53 | 47 | 41 | 35 |

| D.b.h.<br>inches                                | Butt<br>log | Top<br>log | Tree height in number of logs |    |    |    |    |    |    |    |    |    |    |    | Log positions |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---|-------------|------------|-------------------------------|----|----|----|----|----|----|----|----|----|----|----|---------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|   |             |            | 3                             |    |    |    | 4  |    |    |    | 5  |    |    |    | 6             |    |    |    | 3  |    |    |    | 4  |    |    |    | 5  |    |    |    |    |
|   |             |            | 2                             | 2  | 3  | 2  | 3  | 2  | 3  | 4  | 2  | 3  | 2  | 3  | 4             | 2  | 3  | 4  | 2  | 3  | 4  | 2  | 3  | 4  | 2  | 3  | 4  | 2  | 3  | 4  |    |
| Gross Scribner Decimal C volume of 16-foot logs |             |            |                               |    |    |    |    |    |    |    |    |    |    |    |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 14  | 5           | 3          | 4                             | 5  | 6  | 4  | 5  | 6  | 5  | 5  | 6  | 7  | 8  | 9  | 10            | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |    |
| 16  | 7           | 3          | 5                             | 7  | 8  | 6  | 5  | 6  | 5  | 5  | 6  | 7  | 8  | 9  | 10            | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |    |
| 18  | 9           | 3          | 8                             | 9  | 10 | 12 | 11 | 10 | 15 | 12 | 8  | 16 | 13 | 19 | 16            | 12 | 18 | 16 | 13 | 19 | 18 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 20  | 12          | 3          | 3                             | 3  | 10 | 11 | 11 | 17 | 11 | 18 | 14 | 9  | 19 | 16 | 14            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 22  | 15          | 3          | 3                             | 3  | 10 | 11 | 11 | 17 | 11 | 18 | 14 | 9  | 19 | 16 | 14            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 24  | 18          | 4          | 4                             | 4  | 11 | 11 | 11 | 17 | 11 | 18 | 14 | 9  | 19 | 16 | 14            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 26  | 21          | 4          | 4                             | 4  | 11 | 11 | 11 | 17 | 11 | 18 | 14 | 9  | 19 | 16 | 14            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 28  | 25          | 5          | 5                             | 5  | 13 | 13 | 13 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 30  | 29          | 6          | 6                             | 6  | 13 | 13 | 13 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 32  | 34          | 7          | 7                             | 7  | 13 | 13 | 13 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 34  | 39          | 8          | 8                             | 8  | 13 | 13 | 13 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 36  | 43          | 9          | 9                             | 9  | 13 | 13 | 13 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 38  | 49          | 10         | 10                            | 10 | 13 | 13 | 13 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 40  | 54          | 12         | 12                            | 12 | 13 | 13 | 13 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 42  | 60          | 13         | 13                            | 13 | 13 | 13 | 13 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 44  | 67          | 15         | 15                            | 15 | 15 | 15 | 15 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 46  | 73          | 16         | 16                            | 16 | 16 | 16 | 16 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 48  | 80          | 18         | 18                            | 18 | 18 | 18 | 18 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 50  | 87          | 20         | 20                            | 20 | 20 | 20 | 20 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 52  | 94          | 21         | 21                            | 21 | 21 | 21 | 21 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 54  | 102         | 23         | 23                            | 23 | 23 | 23 | 23 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 56  | 110         | 25         | 25                            | 25 | 25 | 25 | 25 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 58  | 118         | 27         | 27                            | 27 | 27 | 27 | 27 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 60  | 127         | 29         | 29                            | 29 | 29 | 29 | 29 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 62  | 136         | 31         | 31                            | 31 | 31 | 31 | 31 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 64  | 145         | 34         | 34                            | 34 | 34 | 34 | 34 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 66  | 154         | 36         | 36                            | 36 | 36 | 36 | 36 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 68  | 163         | 38         | 38                            | 38 | 38 | 38 | 38 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 70  | 174         | 41         | 41                            | 41 | 41 | 41 | 41 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 72  | 185         | 45         | 45                            | 45 | 45 | 45 | 45 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 74  | 196         | 46         | 46                            | 46 | 46 | 46 | 46 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 76  | 208         | 49         | 49                            | 49 | 49 | 49 | 49 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 78  | 218         | 51         | 51                            | 51 | 51 | 51 | 51 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 80  | 229         | 54         | 54                            | 54 | 54 | 54 | 54 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 82  | 241         | 57         | 57                            | 57 | 57 | 57 | 57 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 84  | 254         | 60         | 60                            | 60 | 60 | 60 | 60 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 86  | 268         | 63         | 63                            | 63 | 63 | 63 | 63 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88  | 279         | 66         | 66                            | 66 | 66 | 66 | 66 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 90  | 292         | 70         | 70                            | 70 | 70 | 70 | 70 | 17 | 11 | 16 | 11 | 11 | 11 | 11 | 11            | 22 | 18 | 17 | 25 | 20 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     | Log position |     |     |     |     |     |     |     |     |     |     |     |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                  |             |            | 9                             |     |     |     |     | 10  |     |     |     |     | 11           |     |     |     |     | 12  |     |     |     |     |     |     |
|                  |             |            | 2                             | 3   | 4   | 5   | 6   | 7   | 8   | 2   | 3   | 4   | 5            | 6   | 7   | 8   | 9   | 2   | 3   | 4   | 5   | 6   | 7   |     |
| 30               | 29          | 6          | 16                            | 17  | 18  | 19  | 20  | 21  | 22  | 16  | 17  | 18  | 19           | 20  | 21  | 22  | 23  | 16  | 17  | 18  | 19  | 20  | 21  | 22  |
| 32               | 31          | 7          | 27                            | 28  | 29  | 30  | 31  | 32  | 33  | 25  | 26  | 27  | 28           | 29  | 30  | 31  | 32  | 25  | 26  | 27  | 28  | 29  | 30  | 31  |
| 34               | 33          | 8          | 40                            | 41  | 42  | 43  | 44  | 45  | 46  | 37  | 38  | 39  | 40           | 41  | 42  | 43  | 44  | 37  | 38  | 39  | 40  | 41  | 42  | 43  |
| 36               | 35          | 9          | 50                            | 51  | 52  | 53  | 54  | 55  | 56  | 41  | 42  | 43  | 44           | 45  | 46  | 47  | 48  | 41  | 42  | 43  | 44  | 45  | 46  | 47  |
| 38               | 37          | 10         | 60                            | 61  | 62  | 63  | 64  | 65  | 66  | 51  | 52  | 53  | 54           | 55  | 56  | 57  | 58  | 51  | 52  | 53  | 54  | 55  | 56  | 57  |
| 40               | 59          | 11         | 70                            | 71  | 72  | 73  | 74  | 75  | 76  | 61  | 62  | 63  | 64           | 65  | 66  | 67  | 68  | 61  | 62  | 63  | 64  | 65  | 66  | 67  |
| 42               | 68          | 12         | 80                            | 81  | 82  | 83  | 84  | 85  | 86  | 71  | 72  | 73  | 74           | 75  | 76  | 77  | 78  | 71  | 72  | 73  | 74  | 75  | 76  | 77  |
| 44               | 67          | 13         | 90                            | 91  | 92  | 93  | 94  | 95  | 96  | 81  | 82  | 83  | 84           | 85  | 86  | 87  | 88  | 81  | 82  | 83  | 84  | 85  | 86  | 87  |
| 46               | 73          | 14         | 100                           | 101 | 102 | 103 | 104 | 105 | 106 | 91  | 92  | 93  | 94           | 95  | 96  | 97  | 98  | 91  | 92  | 93  | 94  | 95  | 96  | 97  |
| 48               | 80          | 15         | 110                           | 111 | 112 | 113 | 114 | 115 | 116 | 101 | 102 | 103 | 104          | 105 | 106 | 107 | 108 | 101 | 102 | 103 | 104 | 105 | 106 | 107 |
| 50               | 87          | 16         | 120                           | 121 | 122 | 123 | 124 | 125 | 126 | 111 | 112 | 113 | 114          | 115 | 116 | 117 | 118 | 111 | 112 | 113 | 114 | 115 | 116 | 117 |
| 52               | 94          | 17         | 130                           | 131 | 132 | 133 | 134 | 135 | 136 | 121 | 122 | 123 | 124          | 125 | 126 | 127 | 128 | 121 | 122 | 123 | 124 | 125 | 126 | 127 |
| 54               | 102         | 18         | 140                           | 141 | 142 | 143 | 144 | 145 | 146 | 131 | 132 | 133 | 134          | 135 | 136 | 137 | 138 | 131 | 132 | 133 | 134 | 135 | 136 | 137 |
| 56               | 110         | 19         | 150                           | 151 | 152 | 153 | 154 | 155 | 156 | 141 | 142 | 143 | 144          | 145 | 146 | 147 | 148 | 141 | 142 | 143 | 144 | 145 | 146 | 147 |
| 58               | 118         | 20         | 160                           | 161 | 162 | 163 | 164 | 165 | 166 | 151 | 152 | 153 | 154          | 155 | 156 | 157 | 158 | 151 | 152 | 153 | 154 | 155 | 156 | 157 |
| 60               | 127         | 21         | 170                           | 171 | 172 | 173 | 174 | 175 | 176 | 161 | 162 | 163 | 164          | 165 | 166 | 167 | 168 | 161 | 162 | 163 | 164 | 165 | 166 | 167 |
| 62               | 136         | 22         | 180                           | 181 | 182 | 183 | 184 | 185 | 186 | 171 | 172 | 173 | 174          | 175 | 176 | 177 | 178 | 171 | 172 | 173 | 174 | 175 | 176 | 177 |
| 64               | 145         | 23         | 190                           | 191 | 192 | 193 | 194 | 195 | 196 | 181 | 182 | 183 | 184          | 185 | 186 | 187 | 188 | 181 | 182 | 183 | 184 | 185 | 186 | 187 |
| 66               | 154         | 24         | 200                           | 201 | 202 | 203 | 204 | 205 | 206 | 191 | 192 | 193 | 194          | 195 | 196 | 197 | 198 | 191 | 192 | 193 | 194 | 195 | 196 | 197 |
| 68               | 164         | 25         | 210                           | 211 | 212 | 213 | 214 | 215 | 216 | 201 | 202 | 203 | 204          | 205 | 206 | 207 | 208 | 201 | 202 | 203 | 204 | 205 | 206 | 207 |
| 70               | 174         | 26         | 220                           | 221 | 222 | 223 | 224 | 225 | 226 | 211 | 212 | 213 | 214          | 215 | 216 | 217 | 218 | 211 | 212 | 213 | 214 | 215 | 216 | 217 |
| 72               | 185         | 27         | 230                           | 231 | 232 | 233 | 234 | 235 | 236 | 221 | 222 | 223 | 224          | 225 | 226 | 227 | 228 | 221 | 222 | 223 | 224 | 225 | 226 | 227 |
| 74               | 196         | 28         | 240                           | 241 | 242 | 243 | 244 | 245 | 246 | 231 | 232 | 233 | 234          | 235 | 236 | 237 | 238 | 231 | 232 | 233 | 234 | 235 | 236 | 237 |
| 76               | 206         | 29         | 250                           | 251 | 252 | 253 | 254 | 255 | 256 | 241 | 242 | 243 | 244          | 245 | 246 | 247 | 248 | 241 | 242 | 243 | 244 | 245 | 246 | 247 |
| 78               | 216         | 30         | 260                           | 261 | 262 | 263 | 264 | 265 | 266 | 251 | 252 | 253 | 254          | 255 | 256 | 257 | 258 | 251 | 252 | 253 | 254 | 255 | 256 | 257 |
| 80               | 229         | 31         | 270                           | 271 | 272 | 273 | 274 | 275 | 276 | 261 | 262 | 263 | 264          | 265 | 266 | 267 | 268 | 261 | 262 | 263 | 264 | 265 | 266 | 267 |
| 82               | 241         | 32         | 280                           | 281 | 282 | 283 | 284 | 285 | 286 | 271 | 272 | 273 | 274          | 275 | 276 | 277 | 278 | 271 | 272 | 273 | 274 | 275 | 276 | 277 |
| 84               | 251         | 33         | 290                           | 291 | 292 | 293 | 294 | 295 | 296 | 281 | 282 | 283 | 284          | 285 | 286 | 287 | 288 | 281 | 282 | 283 | 284 | 285 | 286 | 287 |
| 86               | 266         | 34         | 300                           | 301 | 302 | 303 | 304 | 305 | 306 | 291 | 292 | 293 | 294          | 295 | 296 | 297 | 298 | 291 | 292 | 293 | 294 | 295 | 296 | 297 |
| 88               | 279         | 35         | 310                           | 311 | 312 | 313 | 314 | 315 | 316 | 301 | 302 | 303 | 304          | 305 | 306 | 307 | 308 | 301 | 302 | 303 | 304 | 305 | 306 | 307 |
| 90               | 292         | 36         | 320                           | 321 | 322 | 323 | 324 | 325 | 326 | 311 | 312 | 313 | 314          | 315 | 316 | 317 | 318 | 311 | 312 | 313 | 314 | 315 | 316 | 317 |
| 92               | 70          |            |                               |     |     |     |     |     |     |     |     |     |              |     |     |     |     |     |     |     |     |     |     |     |

| D.b.h.<br>inches                                | Butt<br>log | Top<br>log | Tree height in number of logs |    |    |    |    |    |    |    |    |    |    |    | Log position |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---|-------------|------------|-------------------------------|----|----|----|----|----|----|----|----|----|----|----|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|
|   |             |            | 3                             |    |    |    | 4  |    |    |    | 5  |    |    |    | 6            |    |    |    | 7  |    |    |    | 8  |    |    |    |    |    |
|   |             |            | 2                             | 2  | 3  | 3  | 2  | 2  | 3  | 3  | 2  | 2  | 3  | 3  | 2            | 2  | 3  | 3  | 2  | 2  | 3  | 3  | 2  | 2  | 3  | 3  |    |    |
| Gross Scribner Decimal C volume of 16-foot logs |             |            |                               |    |    |    |    |    |    |    |    |    |    |    |              |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 14  | 5           | 3          | 4                             | 6  | 5  | 7  | 5  | 4  | 6  | 5  | 8  | 7  | 11 | 10 | 12           | 11 | 14 | 13 | 16 | 15 | 18 | 20 | 24 | 25 | 21 | 18 | 14 |    |
| 16  | 7           | 10         | 3                             | 6  | 8  | 5  | 10 | 7  | 12 | 10 | 15 | 19 | 14 | 10 | 20           | 16 | 12 | 10 | 9  | 7  | 6  | 11 | 12 | 16 | 16 | 19 | 14 | 10 |
| 18  | 10          | 20         | 12                            | 15 | 19 | 3  | 9  | 10 | 12 | 8  | 15 | 17 | 12 | 10 | 22           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 20  | 12          | 22         | 15                            | 19 | 22 | 4  | 10 | 14 | 17 | 12 | 17 | 20 | 14 | 10 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 22  | 15          | 26         | 15                            | 19 | 22 | 5  | 10 | 12 | 14 | 17 | 22 | 17 | 11 | 23 | 19           | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |    |
| 24  | 15          | 28         | 15                            | 19 | 22 | 5  | 10 | 12 | 14 | 17 | 22 | 17 | 11 | 23 | 19           | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |    |
| 26  | 26          | 30         | 30                            | 35 | 35 | 6  | 10 | 12 | 14 | 17 | 22 | 17 | 11 | 23 | 19           | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |    |
| 28  | 26          | 32         | 32                            | 35 | 35 | 7  | 10 | 12 | 14 | 17 | 22 | 17 | 11 | 23 | 19           | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |    |
| 30  | 30          | 35         | 35                            | 35 | 35 | 8  | 10 | 12 | 14 | 17 | 22 | 17 | 11 | 23 | 19           | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |    |
| 32  | 34          | 36         | 36                            | 36 | 36 | 9  | 10 | 12 | 14 | 17 | 22 | 17 | 11 | 23 | 19           | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |    |
| 34  | 34          | 38         | 38                            | 38 | 38 | 10 | 11 | 12 | 13 | 14 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 36  | 34          | 40         | 40                            | 40 | 40 | 11 | 11 | 12 | 13 | 14 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 38  | 34          | 40         | 40                            | 40 | 40 | 11 | 11 | 12 | 13 | 14 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 40  | 30          | 40         | 40                            | 40 | 40 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 42  | 42          | 42         | 42                            | 42 | 42 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 44  | 44          | 48         | 48                            | 48 | 48 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 46  | 46          | 48         | 48                            | 48 | 48 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 48  | 48          | 50         | 50                            | 50 | 50 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 50  | 50          | 52         | 52                            | 52 | 52 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 52  | 52          | 54         | 54                            | 54 | 54 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 54  | 54          | 56         | 56                            | 56 | 56 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 56  | 56          | 58         | 58                            | 58 | 58 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 58  | 58          | 60         | 60                            | 60 | 60 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 60  | 60          | 62         | 62                            | 62 | 62 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 62  | 62          | 64         | 64                            | 64 | 64 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 64  | 64          | 66         | 66                            | 66 | 66 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 66  | 66          | 68         | 68                            | 68 | 68 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 68  | 68          | 70         | 70                            | 70 | 70 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 70  | 70          | 72         | 72                            | 72 | 72 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 72  | 72          | 74         | 74                            | 74 | 74 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 74  | 74          | 76         | 76                            | 76 | 76 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 76  | 76          | 78         | 78                            | 78 | 78 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 78  | 78          | 80         | 80                            | 80 | 80 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 80  | 80          | 82         | 82                            | 82 | 82 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 82  | 82          | 84         | 84                            | 84 | 84 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 84  | 84          | 86         | 86                            | 86 | 86 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 86  | 86          | 88         | 88                            | 88 | 88 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 88  | 88          | 90         | 90                            | 90 | 90 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |
| 90  | 90          | 92         | 92                            | 92 | 92 | 12 | 12 | 13 | 14 | 15 | 19 | 23 | 17 | 11 | 23           | 19 | 15 | 10 | 11 | 14 | 15 | 18 | 21 | 21 | 16 | 16 | 12 | 12 |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | tree height in number of logs |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
|                  |             |            | 9                             |     |     |     | 10  |     |     |     | 11  |     |     |     |     |     |     |    |    |    |    |
|                  |             |            | 2                             | 3   | 4   | 5   | 6   | 7   | 8   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 2  | 3  | 4  | 5  |
| Log position     |             |            |                               |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |
| 30               | 30          | 6          | 28                            | 25  | 23  | 20  | 17  | 13  | 10  | 114 | 105 | 96  | 87  | 78  | 69  | 60  | 51  | 42 | 32 | 29 | 26 |
| 32               | 35          | 7          | 32                            | 30  | 27  | 23  | 19  | 15  | 11  | 115 | 106 | 97  | 88  | 79  | 70  | 60  | 50  | 41 | 31 | 29 | 26 |
| 34               | 30          | 8          | 36                            | 33  | 30  | 26  | 22  | 18  | 13  | 116 | 107 | 98  | 89  | 80  | 71  | 61  | 51  | 41 | 31 | 29 | 26 |
| 36               | 45          | 10         | 41                            | 38  | 34  | 29  | 25  | 20  | 14  | 117 | 108 | 99  | 90  | 81  | 72  | 62  | 52  | 43 | 33 | 31 | 28 |
| 38               | 50          | 11         | 46                            | 42  | 39  | 33  | 28  | 22  | 17  | 118 | 109 | 100 | 91  | 82  | 73  | 63  | 53  | 44 | 34 | 32 | 29 |
| 40               | 56          | 12         | 51                            | 47  | 43  | 37  | 31  | 25  | 19  | 119 | 110 | 101 | 92  | 83  | 74  | 64  | 54  | 45 | 35 | 33 | 30 |
| 42               | 62          | 14         | 57                            | 52  | 47  | 41  | 35  | 29  | 21  | 120 | 111 | 102 | 93  | 84  | 75  | 65  | 55  | 46 | 36 | 34 | 31 |
| 44               | 68          | 15         | 64                            | 58  | 53  | 45  | 39  | 33  | 24  | 121 | 112 | 103 | 94  | 85  | 76  | 66  | 56  | 46 | 36 | 34 | 31 |
| 46               | 75          | 17         | 70                            | 63  | 58  | 49  | 42  | 34  | 25  | 122 | 113 | 104 | 95  | 86  | 77  | 67  | 57  | 47 | 37 | 35 | 32 |
| 48               | 82          | 19         | 76                            | 69  | 63  | 54  | 46  | 37  | 28  | 123 | 114 | 105 | 96  | 87  | 78  | 68  | 58  | 48 | 38 | 36 | 33 |
| 50               | 89          | 20         | 83                            | 75  | 69  | 59  | 50  | 41  | 30  | 124 | 115 | 106 | 97  | 88  | 79  | 69  | 59  | 49 | 39 | 37 | 34 |
| 52               | 97          | 22         | 89                            | 82  | 75  | 64  | 55  | 44  | 33  | 91  | 83  | 76  | 69  | 60  | 51  | 42  | 32  | 22 | 21 | 20 | 19 |
| 54               | 105         | 24         | 97                            | 89  | 81  | 69  | 59  | 48  | 35  | 98  | 90  | 82  | 75  | 66  | 56  | 45  | 35  | 25 | 24 | 23 | 22 |
| 56               | 113         | 26         | 104                           | 96  | 87  | 75  | 63  | 52  | 39  | 106 | 97  | 89  | 81  | 72  | 63  | 53  | 43  | 33 | 23 | 22 | 21 |
| 58               | 122         | 28         | 112                           | 103 | 94  | 80  | 68  | 56  | 42  | 114 | 104 | 95  | 87  | 76  | 65  | 55  | 45  | 35 | 25 | 24 | 23 |
| 60               | 131         | 30         | 120                           | 111 | 101 | 86  | 73  | 60  | 45  | 122 | 112 | 102 | 93  | 82  | 70  | 56  | 45  | 35 | 25 | 24 | 23 |
| 62               | 139         | 32         | 128                           | 118 | 106 | 92  | 78  | 64  | 47  | 130 | 119 | 108 | 99  | 86  | 74  | 60  | 49  | 39 | 29 | 28 | 27 |
| 64               | 147         | 35         | 137                           | 126 | 114 | 99  | 85  | 69  | 52  | 140 | 128 | 117 | 106 | 94  | 80  | 64  | 54  | 44 | 34 | 33 | 32 |
| 66               | 155         | 37         | 146                           | 134 | 122 | 105 | 91  | 74  | 55  | 149 | 136 | 125 | 113 | 100 | 85  | 69  | 53  | 43 | 33 | 32 | 31 |
| 68               | 163         | 40         | 155                           | 142 | 130 | 112 | 96  | 79  | 59  | 158 | 145 | 135 | 121 | 106 | 91  | 73  | 56  | 46 | 36 | 35 | 34 |
| 70               | 179         | 42         | 165                           | 151 | 138 | 119 | 102 | 84  | 63  | 168 | 154 | 144 | 129 | 113 | 96  | 78  | 60  | 49 | 39 | 38 | 37 |
| 72               | 190         | 45         | 175                           | 160 | 146 | 126 | 109 | 89  | 66  | 180 | 165 | 151 | 137 | 121 | 103 | 84  | 69  | 59 | 49 | 39 | 38 |
| 74               | 201         | 47         | 185                           | 170 | 155 | 133 | 115 | 94  | 70  | 189 | 173 | 158 | 144 | 127 | 103 | 84  | 74  | 64 | 54 | 44 | 34 |
| 76               | 213         | 50         | 196                           | 180 | 163 | 141 | 121 | 99  | 74  | 199 | 183 | 167 | 152 | 134 | 114 | 92  | 71  | 61 | 51 | 41 | 31 |
| 78               | 221         | 53         | 206                           | 189 | 172 | 149 | 128 | 105 | 79  | 211 | 193 | 176 | 160 | 141 | 120 | 98  | 75  | 61 | 51 | 41 | 31 |
| 80               | 236         | 56         | 217                           | 199 | 182 | 157 | 135 | 110 | 83  | 221 | 203 | 185 | 169 | 149 | 127 | 103 | 79  | 61 | 51 | 41 | 31 |
| 82               | 248         | 59         | 229                           | 210 | 191 | 165 | 142 | 116 | 87  | 233 | 214 | 195 | 178 | 157 | 133 | 108 | 83  | 74 | 64 | 54 | 44 |
| 84               | 261         | 62         | 240                           | 221 | 201 | 173 | 149 | 122 | 91  | 245 | 224 | 205 | 187 | 165 | 140 | 114 | 87  | 74 | 64 | 54 | 44 |
| 86               | 274         | 65         | 252                           | 231 | 211 | 182 | 157 | 128 | 96  | 257 | 235 | 215 | 196 | 173 | 157 | 120 | 92  | 74 | 64 | 54 | 44 |
| 88               | 287         | 68         | 264                           | 243 | 221 | 191 | 164 | 134 | 101 | 269 | 247 | 226 | 206 | 181 | 154 | 126 | 96  | 74 | 64 | 54 | 44 |
| 90               | 301         | 72         | 277                           | 254 | 231 | 200 | 172 | 140 | 105 | 282 | 258 | 236 | 215 | 190 | 162 | 131 | 101 | 74 | 64 | 54 | 44 |

| D.b.h.<br>inches                                | Butt<br>log | Top<br>log | Tree height in number of logs |    |     |     |     |     |     |     |    |     |     |     | Log Position |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---|-------------|------------|-------------------------------|----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|   |             |            | 3                             |    |     |     | 4   |     |     |     | 5  |     |     |     | 6            |     |     |     | 7   |     |     |     | 8   |     |     |     |     |     |     |     |     |     |
|   |             |            | 2                             | 2  | 3   | 2   | 3   | 4   | 2   | 3   | 4  | 2   | 3   | 4   | 2            | 3   | 4   | 2   | 3   | 4   | 5   | 6   | 2   | 3   | 4   | 5   | 6   | 7   |     |     |     |     |
| Gross Scribner Decimal C volume of 16-foot logs |             |            |                               |    |     |     |     |     |     |     |    |     |     |     |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 14  | 5           | 3          | 5                             | 6  | 6   | 7   | 6   | 4   | 11  | 8   | 6  | 11  | 9   | 6   | 11           | 9   | 6   | 11  | 9   | 6   | 11  | 9   | 6   | 11  | 9   | 6   | 11  | 9   |     |     |     |     |
| 16  | 7           | 3          | 6                             | 7  | 6   | 8   | 7   | 5   | 12  | 8   | 6  | 12  | 10  | 8   | 12           | 10  | 8   | 12  | 10  | 8   | 12  | 10  | 8   | 12  | 10  | 8   | 12  | 10  |     |     |     |     |
| 18  | 10          | 3          | 3                             | 3  | 10  | 12  | 11  | 9   | 13  | 10  | 8  | 16  | 14  | 11  | 16           | 14  | 11  | 16  | 14  | 11  | 16  | 14  | 11  | 16  | 14  | 11  | 16  | 14  |     |     |     |     |
| 20  | 13          | 3          | 8                             | 10 | 12  | 14  | 10  | 8   | 10  | 12  | 10 | 16  | 14  | 11  | 16           | 14  | 11  | 16  | 14  | 11  | 16  | 14  | 11  | 16  | 14  | 11  | 16  | 14  |     |     |     |     |
| 22  | 16          | 4          | 12                            | 14 | 12  | 14  | 10  | 8   | 15  | 12  | 10 | 20  | 17  | 13  | 19           | 17  | 13  | 19  | 17  | 13  | 19  | 17  | 13  | 19  | 17  | 13  | 19  | 17  |     |     |     |     |
| 24  | 19          | 4          | 15                            | 15 | 18  | 12  | 18  | 12  | 19  | 15  | 10 | 22  | 17  | 12  | 23           | 17  | 12  | 23  | 17  | 12  | 23  | 17  | 12  | 23  | 17  | 12  | 23  | 17  |     |     |     |     |
| 26  | 25          | 5          | 21                            | 14 | 21  | 14  | 21  | 14  | 22  | 17  | 12 | 23  | 17  | 12  | 23           | 17  | 12  | 23  | 17  | 12  | 23  | 17  | 12  | 23  | 17  | 12  | 23  | 17  |     |     |     |     |
| 28  | 27          | 5          | 21                            | 14 | 21  | 14  | 21  | 14  | 22  | 17  | 12 | 23  | 17  | 12  | 23           | 17  | 12  | 23  | 17  | 12  | 23  | 17  | 12  | 23  | 17  | 12  | 23  | 17  |     |     |     |     |
| 30  | 31          | 6          | 25                            | 16 | 27  | 20  | 14  | 27  | 20  | 14  | 27 | 20  | 14  | 27  | 20           | 14  | 27  | 20  | 14  | 27  | 20  | 14  | 27  | 20  | 14  | 27  | 20  | 14  |     |     |     |     |
| 32  | 36          | 8          | 28                            | 18 | 30  | 23  | 16  | 31  | 21  | 18  | 35 | 21  | 16  | 31  | 21           | 18  | 35  | 21  | 16  | 31  | 21  | 18  | 35  | 21  | 16  | 31  | 21  | 18  |     |     |     |     |
| 34  | 41          | 9          | 31                            | 21 | 34  | 24  | 21  | 37  | 24  | 39  | 30 | 21  | 41  | 34  | 24           | 45  | 38  | 30  | 21  | 45  | 38  | 30  | 21  | 45  | 38  | 30  | 21  | 45  | 38  |     |     |     |
| 36  | 46          | 10         | 41                            | 27 | 44  | 37  | 24  | 44  | 27  | 43  | 34 | 24  | 47  | 34  | 24           | 45  | 38  | 30  | 21  | 45  | 38  | 30  | 21  | 45  | 38  | 30  | 21  | 45  | 38  |     |     |     |
| 38  | 52          | 11         | 45                            | 30 | 48  | 38  | 26  | 45  | 30  | 48  | 38 | 26  | 50  | 43  | 33           | 48  | 38  | 26  | 50  | 43  | 33  | 48  | 38  | 26  | 50  | 43  | 33  | 48  | 38  |     |     |     |
| 40  | 58          | 13         | 45                            | 30 | 54  | 42  | 29  | 56  | 36  | 46  | 33 | 26  | 62  | 52  | 40           | 55  | 46  | 33  | 62  | 52  | 40  | 55  | 46  | 33  | 62  | 52  | 40  | 55  | 46  |     |     |     |
| 42  | 64          | 14         | 70                            | 16 | 65  | 51  | 36  | 68  | 58  | 44  | 36 | 36  | 71  | 55  | 48           | 68  | 58  | 44  | 36  | 68  | 58  | 44  | 36  | 68  | 58  | 44  | 36  | 68  | 58  |     |     |     |
| 44  | 78          | 17         | 78                            | 17 | 71  | 56  | 39  | 71  | 56  | 71  | 56 | 39  | 74  | 63  | 49           | 75  | 63  | 49  | 74  | 63  | 49  | 75  | 63  | 49  | 74  | 63  | 49  | 75  | 63  |     |     |     |
| 46  | 85          | 19         | 85                            | 71 | 84  | 66  | 46  | 84  | 71  | 84  | 66 | 46  | 81  | 69  | 53           | 83  | 72  | 61  | 81  | 69  | 53  | 83  | 72  | 61  | 81  | 69  | 53  | 83  | 72  |     |     |     |
| 48  | 92          | 21         | 92                            | 21 | 90  | 78  | 61  | 92  | 78  | 81  | 69 | 68  | 74  | 57  | 57           | 90  | 78  | 61  | 92  | 78  | 61  | 90  | 78  | 61  | 92  | 78  | 61  | 90  | 78  |     |     |     |
| 50  | 92          | 23         | 100                           | 23 | 91  | 71  | 50  | 95  | 80  | 80  | 62 | 45  | 97  | 85  | 71           | 97  | 85  | 71  | 97  | 85  | 71  | 97  | 85  | 71  | 97  | 85  | 71  | 97  | 85  |     |     |     |
| 52  | 106         | 25         | 106                           | 25 | 100 | 79  | 55  | 104 | 88  | 88  | 68 | 50  | 107 | 93  | 78           | 107 | 93  | 78  | 107 | 93  | 78  | 107 | 93  | 78  | 107 | 93  | 78  | 107 | 93  |     |     |     |
| 54  | 117         | 27         | 117                           | 27 | 106 | 83  | 59  | 110 | 94  | 94  | 72 | 53  | 113 | 99  | 67           | 113 | 99  | 67  | 113 | 99  | 67  | 113 | 99  | 67  | 113 | 99  | 67  | 113 | 99  |     |     |     |
| 56  | 125         | 29         | 125                           | 29 | 113 | 88  | 62  | 117 | 100 | 77  | 55 | 121 | 105 | 88  | 72           | 55  | 121 | 105 | 88  | 72  | 55  | 121 | 105 | 88  | 72  | 55  | 121 | 105 | 88  |     |     |     |
| 60  | 134         | 31         | 134                           | 31 | 126 | 108 | 83  | 126 | 108 | 83  | 60 | 44  | 136 | 113 | 95           | 127 | 112 | 93  | 127 | 112 | 93  | 127 | 112 | 93  | 127 | 112 | 93  | 127 | 112 |     |     |     |
| 62  | 144         | 33         | 144                           | 33 | 135 | 115 | 89  | 135 | 115 | 89  | 64 | 45  | 123 | 95  | 69           | 118 | 129 | 109 | 88  | 118 | 129 | 109 | 88  | 118 | 129 | 109 | 88  | 118 | 129 | 109 |     |     |
| 64  | 152         | 36         | 152                           | 36 | 144 | 123 | 95  | 144 | 123 | 95  | 69 | 49  | 131 | 101 | 73           | 157 | 138 | 116 | 93  | 157 | 138 | 116 | 93  | 157 | 138 | 116 | 93  | 157 | 138 | 116 |     |     |
| 66  | 164         | 38         | 164                           | 38 | 153 | 131 | 101 | 153 | 131 | 101 | 73 | 49  | 163 | 138 | 107          | 78  | 167 | 135 | 99  | 71  | 167 | 135 | 99  | 71  | 167 | 135 | 99  | 71  | 167 | 135 | 99  |     |
| 68  | 174         | 41         | 174                           | 41 | 163 | 138 | 107 | 163 | 138 | 107 | 78 | 49  | 172 | 147 | 82           | 167 | 137 | 111 | 105 | 172 | 147 | 82  | 167 | 137 | 111 | 105 | 172 | 147 | 82  | 167 | 137 | 111 |
| 70  | 186         | 45         | 186                           | 45 | 174 | 147 | 82  | 174 | 147 | 82  | 80 | 49  | 182 | 155 | 120          | 87  | 187 | 153 | 117 | 105 | 187 | 153 | 117 | 105 | 187 | 153 | 117 | 105 | 187 | 153 | 117 |     |
| 72  | 196         | 49         | 207                           | 49 | 196 | 155 | 120 | 196 | 155 | 120 | 87 | 49  | 193 | 165 | 127          | 92  | 198 | 168 | 116 | 104 | 198 | 168 | 116 | 104 | 198 | 168 | 116 | 104 | 198 | 168 | 116 |     |
| 74  | 207         | 52         | 219                           | 52 | 207 | 155 | 120 | 207 | 155 | 120 | 87 | 49  | 204 | 164 | 119          | 119 | 205 | 165 | 116 | 104 | 205 | 165 | 116 | 104 | 205 | 165 | 116 | 104 | 205 | 165 | 116 |     |
| 76  | 219         | 55         | 231                           | 55 | 213 | 155 | 120 | 213 | 155 | 120 | 87 | 49  | 210 | 164 | 119          | 119 | 211 | 165 | 116 | 104 | 211 | 165 | 116 | 104 | 211 | 165 | 116 | 104 | 211 | 165 | 116 |     |
| 78  | 231         | 58         | 243                           | 58 | 214 | 155 | 120 | 214 | 155 | 120 | 87 | 49  | 217 | 164 | 119          | 119 | 218 | 165 | 116 | 104 | 218 | 165 | 116 | 104 | 218 | 165 | 116 | 104 | 218 | 165 | 116 |     |
| 80  | 243         | 61         | 256                           | 61 | 225 | 155 | 120 | 225 | 155 | 120 | 87 | 49  | 237 | 164 | 119          | 119 | 238 | 165 | 116 | 104 | 238 | 165 | 116 | 104 | 238 | 165 | 116 | 104 | 238 | 165 | 116 |     |
| 82  | 268         | 64         | 268                           | 64 | 249 | 155 | 120 | 249 | 155 | 120 | 87 | 49  | 249 | 164 | 119          | 119 | 250 | 165 | 116 | 104 | 250 | 165 | 116 | 104 | 250 | 165 | 116 | 104 | 250 | 165 | 116 |     |
| 84  | 282         | 67         | 282                           | 67 | 261 | 155 | 120 | 261 | 155 | 120 | 87 | 49  | 261 | 164 | 119          | 119 | 262 | 165 | 116 | 104 | 262 | 165 | 116 | 104 | 262 | 165 | 116 | 104 | 262 | 165 | 116 |     |
| 86  | 296         | 70         | 296                           | 70 | 273 | 155 | 120 | 273 | 155 | 120 | 87 | 49  | 273 | 164 | 119          | 119 | 274 | 165 | 116 | 104 | 274 | 165 | 116 | 104 | 274 | 165 | 116 | 104 | 274 | 165 | 116 |     |
| 88  | 309         | 74         | 309                           | 74 | 273 | 155 | 120 | 273 | 155 | 120 | 87 | 49  | 273 | 164 | 119          | 119 | 274 | 165 | 116 | 104 | 274 | 165 | 116 | 104 | 274 | 165 | 116 | 104 | 274 | 165 | 116 |     |
| 90  | 309         | 74         | 309                           | 74 | 273 | 155 | 120 | 273 | 155 | 120 | 87 | 49  | 273 | 164 | 119          | 119 | 274 | 165 | 116 | 104 | 274 | 165 | 116 | 104 | 274 | 165 | 116 | 104 | 274 | 165 | 116 |     |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     | Gross Scribner Decimal C volume of 10-foot logs |     |     |     |     |     |     |     |     |     |     |     |     |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                  |             |            | 9                             |     |     |     |     | 10  |     |     |     |     | 11  |     |     |     |     | 12  |     |     |     |     |     |     |     |
|                  |             |            | 2                             | 3   | 4   | 5   | 6   | 2   | 3   | 4   | 5   | 6   | 2   | 3   | 4   | 5   | 6   | 2   | 3   | 4   | 5   | 6   |     |     |     |
| 30               | 31          | 6          | 29                            | 26  | 24  | 20  | 17  | 14  | 10  | 58  | 56  | 49  | 39  | 30  | 26  | 28  | 69  | 59  | 50  | 38  | 33  | 30  |     |     |     |
| 32               | 36          | 8          | 33                            | 30  | 27  | 23  | 20  | 16  | 11  | 62  | 53  | 43  | 33  | 26  | 24  | 25  | 69  | 53  | 53  | 40  | 36  | 33  | 30  |     |     |
| 34               | 39          | 9          | 37                            | 34  | 31  | 27  | 22  | 18  | 13  | 68  | 57  | 46  | 35  | 26  | 24  | 25  | 73  | 63  | 63  | 53  | 46  | 43  | 40  |     |     |
| 36               | 40          | 10         | 43                            | 39  | 35  | 30  | 26  | 21  | 15  | 71  | 62  | 51  | 39  | 30  | 26  | 24  | 25  | 78  | 67  | 66  | 56  | 43  | 40  |     |     |
| 38               | 44          | 11         | 48                            | 44  | 39  | 34  | 29  | 23  | 17  | 76  | 64  | 54  | 44  | 34  | 30  | 26  | 24  | 25  | 84  | 73  | 73  | 60  | 46  | 43  |     |
| 40               | 48          | 12         | 53                            | 53  | 48  | 44  | 38  | 32  | 26  | 19  | 80  | 79  | 72  | 65  | 58  | 44  | 34  | 30  | 88  | 78  | 78  | 68  | 54  | 51  |     |
| 42               | 58          | 13         | 59                            | 53  | 49  | 49  | 39  | 32  | 22  | 21  | 86  | 93  | 85  | 78  | 71  | 62  | 53  | 44  | 35  | 104 | 95  | 88  | 73  | 60  | 57  |
| 44               | 64          | 14         | 65                            | 59  | 54  | 54  | 48  | 35  | 26  | 21  | 101 | 92  | 85  | 77  | 68  | 57  | 46  | 35  | 33  | 111 | 101 | 94  | 83  | 73  | 70  |
| 46               | 76          | 16         | 72                            | 65  | 60  | 51  | 43  | 35  | 26  | 21  | 111 | 101 | 93  | 84  | 74  | 63  | 51  | 39  | 33  | 118 | 111 | 101 | 94  | 83  | 80  |
| 48               | 85          | 19         | 78                            | 71  | 65  | 56  | 47  | 39  | 28  | 21  | 116 | 106 | 98  | 89  | 79  | 67  | 54  | 44  | 34  | 125 | 118 | 107 | 100 | 88  | 84  |
| 50               | 92          | 21         | 85                            | 78  | 71  | 61  | 51  | 42  | 31  | 21  | 125 | 115 | 105   | 95  | 83  | 71  | 58  | 44  | 34  | 135 | 127 | 116 | 108 | 95  | 91  |
| 52               | 100         | 23         | 92                            | 84  | 77  | 68  | 60  | 50  | 45  | 34  | 123 | 112 | 102   | 90  | 89  | 76  | 62  | 47  | 34  | 145 | 135 | 124 | 115 | 101 | 97  |
| 54               | 108         | 25         | 99                            | 91  | 83  | 71  | 61  | 51  | 42  | 34  | 124 | 114 | 102   | 90  | 82  | 66  | 51  | 44  | 34  | 155 | 145 | 135 | 124 | 115 | 109 |
| 56               | 117         | 27         | 109                           | 100 | 91  | 78  | 68  | 54  | 44  | 34  | 125 | 115 | 105   | 95  | 83  | 71  | 58  | 44  | 34  | 164 | 154 | 145 | 135 | 123 | 119 |
| 58               | 125         | 29         | 116                           | 106 | 97  | 83  | 71  | 57  | 43  | 34  | 126 | 115 | 105   | 95  | 83  | 71  | 58  | 44  | 34  | 171 | 164 | 154 | 140 | 131 | 125 |
| 60               | 134         | 31         | 123                           | 113 | 103 | 88  | 75  | 61  | 51  | 42  | 125 | 115 | 105   | 95  | 83  | 71  | 58  | 44  | 34  | 175 | 167 | 156 | 147 | 130 | 124 |
| 62               | 144         | 33         | 133                           | 122 | 110 | 95  | 82  | 66  | 56  | 46  | 126 | 112 | 102   | 90  | 89  | 76  | 62  | 47  | 34  | 184 | 173 | 163 | 156 | 140 | 133 |
| 64               | 153         | 36         | 151                           | 136 | 126 | 109 | 93  | 76  | 61  | 51  | 127 | 114 | 102   | 90  | 82  | 66  | 51  | 44  | 34  | 194 | 182 | 173 | 167 | 150 | 143 |
| 66               | 164         | 38         | 160                           | 147 | 134 | 115 | 99  | 81  | 61  | 51  | 128 | 115 | 103   | 90  | 88  | 76  | 62  | 47  | 34  | 205 | 193 | 177 | 165 | 146 | 138 |
| 68               | 174         | 41         | 160                           | 147 | 134 | 115 | 99  | 81  | 61  | 51  | 129 | 115 | 103   | 90  | 88  | 76  | 62  | 47  | 34  | 217 | 203 | 186 | 171 | 154 | 145 |
| 70               | 186         | 42         | 170                           | 156 | 142 | 122 | 105 | 86  | 64  | 51  | 127 | 119 | 105   | 92  | 80  | 61  | 58  | 44  | 34  | 174 | 163 | 159 | 156 | 143 | 138 |
| 72               | 196         | 46         | 180                           | 165 | 150 | 130 | 112 | 91  | 68  | 58  | 128 | 116 | 105   | 92  | 80  | 61  | 58  | 44  | 34  | 184 | 173 | 163 | 158 | 144 | 139 |
| 74               | 207         | 49         | 190                           | 175 | 159 | 137 | 118 | 90  | 72  | 54  | 129 | 117 | 105   | 92  | 80  | 61  | 58  | 44  | 34  | 194 | 182 | 171 | 167 | 153 | 147 |
| 76               | 219         | 52         | 202                           | 185 | 168 | 145 | 125 | 102 | 77  | 57  | 130 | 118 | 106   | 93  | 81  | 61  | 58  | 44  | 34  | 206 | 193 | 177 | 165 | 146 | 140 |
| 78               | 231         | 55         | 212                           | 195 | 178 | 153 | 132 | 108 | 81  | 217 | 199 | 181 | 165   | 146 | 124 | 100 | 77  | 54  | 34  | 217 | 203 | 186 | 171 | 154 | 145 |
| 80               | 243         | 58         | 224                           | 205 | 187 | 162 | 139 | 113 | 65  | 228 | 209 | 191 | 174   | 153 | 131 | 106 | 61  | 229 | 215 | 196 | 183 | 162 | 142 | 124 | 103 |
| 82               | 256         | 61         | 235                           | 216 | 196 | 170 | 146 | 119 | 69  | 210 | 201 | 183 | 161   | 137 | 111 | 85  | 61  | 240 | 225 | 216 | 206 | 193 | 170 | 150 | 109 |
| 84               | 268         | 64         | 247                           | 227 | 206 | 179 | 153 | 125 | 94  | 252 | 231 | 211 | 182   | 169 | 144 | 117 | 90  | 252 | 237 | 216 | 202 | 179 | 157 | 137 | 87  |
| 86               | 282         | 67         | 260                           | 239 | 217 | 188 | 161 | 132 | 99  | 265 | 243 | 222 | 198   | 176 | 152 | 123 | 95  | 265 | 250 | 228 | 212 | 188 | 165 | 144 | 120 |
| 88               | 296         | 70         | 272                           | 250 | 228 | 197 | 169 | 138 | 104 | 277 | 254 | 233 | 212   | 187 | 159 | 129 | 99  | 278 | 261 | 239 | 223 | 197 | 173 | 151 | 126 |
| 90               | 309         | 74         | 285                           | 262 | 239 | 206 | 177 | 144 | 108 | 291 | 266 | 243 | 222   | 196 | 166 | 135 | 104 | 291 | 273 | 250 | 233 | 206 | 181 | 156 | 132 |

| D.b.h.<br>inches                                | Butt<br>log | Top<br>log | Tree height in number of logs |     |    |    |    |    |    |    |    |    |    |    | Log position |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---|-------------|------------|-------------------------------|-----|----|----|----|----|----|----|----|----|----|----|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|   |             |            | 3                             |     |    |    | 4  |    |    |    | 5  |    |    |    | 6            |    |    |    | 7  |    |    |    | 8  |    |    |    |    |    |    |    |    |    |    |    |
|   |             |            | 2                             | 2   | 3  | 2  | 3  | 2  | 4  | 2  | 3  | 2  | 4  | 2  | 3            | 4  | 5  | 6  | 2  | 3  | 4  | 5  | 6  | 7  |    |    |    |    |    |    |    |    |    |    |
| Gross Scribner Decimal C volume of 16-foot logs |             |            |                               |     |    |    |    |    |    |    |    |    |    |    |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|   |             |            |                               |     |    |    |    |    |    |    |    |    |    |    |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 14  | 6           | 3          | 4                             | 5   | 4  | 4  | 5  | 6  | 5  | 7  | 6  | 4  | 5  | 6  | 7            | 6  | 5  | 4  | 3  | 2  | 1  | 0  | 14 | 13 | 12 | 11 | 10 |    |    |    |    |    |    |    |
| 16  | 8           | 3          | 5                             | 6   | 5  | 6  | 7  | 8  | 5  | 9  | 8  | 6  | 5  | 7  | 10           | 13 | 8  | 15 | 17 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |    |    |    |    |    |    |
| 18  | 10          | 3          | 5                             | 8   | 6  | 9  | 6  | 11 | 7  | 13 | 11 | 9  | 6  | 11 | 13           | 15 | 10 | 17 | 15 | 13 | 12 | 11 | 10 | 9  | 8  | 7  | 6  | 5  |    |    |    |    |    |    |
| 20  | 13          | 3          | 5                             | 9   | 6  | 11 | 13 | 8  | 15 | 10 | 13 | 11 | 7  | 11 | 15           | 17 | 12 | 21 | 19 | 17 | 15 | 13 | 12 | 11 | 10 | 9  | 8  | 7  | 6  |    |    |    |    |    |
| 22  | 16          | 3          | 5                             | 12  | 10 | 15 | 18 | 12 | 15 | 20 | 15 | 10 | 13 | 8  | 11           | 17 | 15 | 11 | 17 | 15 | 13 | 12 | 11 | 10 | 9  | 8  | 7  | 6  | 5  |    |    |    |    |    |
| 24  | 20          | 4          | 14                            | 15  | 12 | 18 | 14 | 21 | 14 | 23 | 17 | 12 | 10 | 15 | 18           | 11 | 20 | 16 | 11 | 16 | 14 | 13 | 12 | 11 | 10 | 9  | 8  | 7  | 6  |    |    |    |    |    |
| 26  | 23          | 5          | 15                            | 15  | 12 | 18 | 14 | 21 | 14 | 23 | 17 | 12 | 10 | 15 | 18           | 11 | 20 | 16 | 11 | 16 | 14 | 13 | 12 | 11 | 10 | 9  | 8  | 7  | 6  |    |    |    |    |    |
| 28  | 28          | 6          | 15                            | 15  | 12 | 18 | 14 | 21 | 14 | 23 | 17 | 12 | 10 | 15 | 18           | 11 | 20 | 16 | 11 | 16 | 14 | 13 | 12 | 11 | 10 | 9  | 8  | 7  | 6  |    |    |    |    |    |
| 30  | 32          | 7          | 17                            | 25  | 17 | 27 | 21 | 14 | 28 | 23 | 18 | 13 | 16 | 14 | 27           | 21 | 14 | 13 | 33 | 29 | 21 | 17 | 11 | 13 | 12 | 11 | 10 | 9  | 8  | 7  |    |    |    |    |
| 32  | 37          | 8          | 19                            | 28  | 19 | 31 | 24 | 16 | 32 | 27 | 21 | 14 | 17 | 14 | 31           | 24 | 17 | 13 | 38 | 33 | 27 | 22 | 16 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 |    |    |    |
| 34  | 42          | 9          | 20                            | 35  | 25 | 35 | 28 | 19 | 35 | 28 | 21 | 14 | 17 | 14 | 35           | 27 | 21 | 14 | 42 | 37 | 31 | 25 | 18 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 |    |    |    |
| 36  | 48          | 10         | 20                            | 37  | 25 | 40 | 31 | 25 | 45 | 35 | 25 | 20 | 14 | 17 | 14           | 47 | 40 | 30 | 22 | 48 | 35 | 28 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 |    |    |    |
| 38  | 53          | 12         | 20                            | 42  | 28 | 45 | 35 | 25 | 45 | 35 | 25 | 20 | 14 | 17 | 14           | 47 | 40 | 30 | 22 | 48 | 35 | 28 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 |    |    |    |
| 40  | 59          | 13         | 15                            | 59  | 32 | 60 | 50 | 39 | 53 | 44 | 34 | 24 | 14 | 17 | 14           | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |    |    |
| 42  | 66          | 15         | 16                            | 103 | 23 | 60 | 55 | 43 | 30 | 57 | 49 | 37 | 27 | 14 | 17           | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |    |
| 44  | 73          | 16         | 16                            | 111 | 23 | 61 | 51 | 48 | 33 | 63 | 54 | 42 | 30 | 14 | 17           | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |    |
| 46  | 80          | 18         | 18                            | 120 | 28 | 67 | 52 | 45 | 37 | 70 | 59 | 45 | 33 | 20 | 14           | 17 | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| 48  | 87          | 20         | 20                            | 129 | 30 | 74 | 57 | 40 | 37 | 77 | 55 | 47 | 35 | 20 | 14           | 17 | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| 50  | 95          | 22         | 22                            | 138 | 32 | 60 | 62 | 44 | 33 | 63 | 54 | 43 | 31 | 14 | 17           | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 |
| 52  | 103         | 23         | 23                            | 148 | 34 | 60 | 62 | 44 | 33 | 63 | 54 | 43 | 31 | 14 | 17           | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 |
| 54  | 111         | 26         | 26                            | 158 | 37 | 61 | 64 | 44 | 33 | 63 | 54 | 43 | 31 | 14 | 17           | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 |
| 56  | 120         | 28         | 28                            | 168 | 39 | 62 | 65 | 45 | 35 | 65 | 55 | 45 | 35 | 20 | 14           | 17 | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| 58  | 129         | 30         | 30                            | 179 | 42 | 63 | 65 | 45 | 35 | 65 | 55 | 45 | 35 | 20 | 14           | 17 | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| 60  | 138         | 32         | 32                            | 188 | 45 | 64 | 66 | 45 | 35 | 66 | 56 | 46 | 35 | 20 | 14           | 17 | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| 62  | 201         | 47         | 47                            | 201 | 47 | 65 | 67 | 45 | 35 | 67 | 57 | 47 | 35 | 20 | 14           | 17 | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| 64  | 213         | 50         | 50                            | 213 | 50 | 66 | 68 | 46 | 36 | 68 | 58 | 48 | 36 | 20 | 14           | 17 | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| 66  | 225         | 53         | 53                            | 225 | 53 | 67 | 69 | 47 | 36 | 69 | 59 | 49 | 36 | 20 | 14           | 17 | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| 68  | 238         | 56         | 56                            | 238 | 56 | 68 | 70 | 47 | 36 | 70 | 60 | 50 | 36 | 20 | 14           | 17 | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| 70  | 190         | 45         | 45                            | 190 | 45 | 69 | 71 | 47 | 36 | 71 | 61 | 51 | 36 | 20 | 14           | 17 | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| 72  | 201         | 47         | 47                            | 201 | 47 | 70 | 72 | 47 | 36 | 72 | 62 | 52 | 36 | 20 | 14           | 17 | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| 74  | 213         | 50         | 50                            | 213 | 50 | 71 | 73 | 47 | 36 | 73 | 63 | 53 | 36 | 20 | 14           | 17 | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| 76  | 225         | 53         | 53                            | 225 | 53 | 72 | 74 | 47 | 36 | 74 | 64 | 54 | 36 | 20 | 14           | 17 | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| 78  | 238         | 56         | 56                            | 238 | 56 | 73 | 75 | 47 | 36 | 75 | 65 | 55 | 36 | 20 | 14           | 17 | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| 80  | 250         | 59         | 59                            | 250 | 59 | 74 | 76 | 48 | 36 | 76 | 66 | 56 | 36 | 20 | 14           | 17 | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| 82  | 263         | 62         | 62                            | 263 | 62 | 75 | 77 | 48 | 36 | 77 | 67 | 57 | 36 | 20 | 14           | 17 | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| 84  | 277         | 66         | 66                            | 277 | 66 | 76 | 78 | 48 | 36 | 78 | 68 | 58 | 36 | 20 | 14           | 17 | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| 86  | 290         | 69         | 69                            | 290 | 69 | 77 | 79 | 48 | 36 | 79 | 69 | 59 | 36 | 20 | 14           | 17 | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| 88  | 304         | 73         | 73                            | 304 | 73 | 78 | 80 | 48 | 36 | 80 | 70 | 60 | 36 | 20 | 14           | 17 | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| 90  | 318         | 76         | 76                            | 318 | 76 | 81 | 83 | 48 | 36 | 83 | 73 | 63 | 36 | 20 | 14           | 17 | 14 | 54 | 46 | 34 | 24 | 54 | 46 | 39 | 32 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |

| D.b.h.<br>inches | Butt<br>log<br>Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |    |    | Log position |    |     |     |     |     |     |     |    |    | Gross Scribner Decimal C volume of 16-foot logs |     |     |     |     |     |     |     |     |    |    |
|------------------|---------------------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|----|----|--------------|----|-----|-----|-----|-----|-----|-----|----|----|---|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
|                  |                           | 9                             |     |     |     |     | 10  |     |     |    |    | 11           |    |     |     |     | 12  |     |     |    |    | 13  |     |     |     |     | 14  |     |     |     |    |    |
|                  |                           | 2                             | 3   | 4   | 5   | 6   | 7   | 8   | 2   | 3  | 4  | 5            | 6  | 7   | 8   | 9   | 2   | 3   | 4   | 5  | 6  | 7   | 8   | 9   | 2   | 3   | 4   | 5   | 6   | 7   | 8  | 9  |
| 28               | 28                        | 6                             | 25  | 23  | 21  | 18  | 15  | 12  | 9   | 7  | 5  | 4            | 3  | 2   | 1   | 1   | 1   | 1   | 1   | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1  |    |
| 30               | 32                        | 7                             | 29  | 27  | 25  | 21  | 18  | 16  | 13  | 11 | 9  | 7            | 5  | 4   | 3   | 2   | 1   | 1   | 1   | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1  |    |
| 32               | 37                        | 8                             | 34  | 31  | 28  | 26  | 23  | 20  | 18  | 16 | 14 | 12           | 10 | 8   | 6   | 4   | 2   | 1   | 1   | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1  |    |
| 34               | 42                        | 9                             | 39  | 36  | 32  | 27  | 23  | 19  | 16  | 14 | 12 | 10           | 8  | 6   | 4   | 2   | 1   | 1   | 1   | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1  |    |
| 36               | 48                        | 10                            | 43  | 40  | 36  | 31  | 26  | 21  | 18  | 16 | 14 | 12           | 10 | 8   | 6   | 4   | 2   | 1   | 1   | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1  |    |
| 38               | 53                        | 12                            | 49  | 45  | 41  | 35  | 30  | 24  | 18  | 16 | 14 | 12           | 10 | 8   | 6   | 4   | 2   | 1   | 1   | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1  |    |
| 40               | 59                        | 13                            | 55  | 50  | 45  | 39  | 33  | 27  | 20  | 18 | 16 | 14           | 12 | 10  | 8   | 6   | 4   | 2   | 1   | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1  |    |
| 42               | 66                        | 15                            | 60  | 55  | 50  | 45  | 37  | 30  | 22  | 18 | 16 | 14           | 12 | 10  | 8   | 6   | 4   | 2   | 1   | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1  |    |
| 44               | 73                        | 16                            | 66  | 61  | 56  | 51  | 45  | 36  | 25  | 20 | 18 | 16           | 14 | 12  | 10  | 8   | 6   | 4   | 2   | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |    |    |
| 46               | 80                        | 18                            | 73  | 67  | 61  | 52  | 45  | 36  | 27  | 20 | 18 | 16           | 14 | 12  | 10  | 8   | 6   | 4   | 2   | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |    |    |
| 48               | 87                        | 20                            | 80  | 74  | 67  | 61  | 52  | 45  | 36  | 27 | 20 | 18           | 16 | 14  | 12  | 10  | 8   | 6   | 4   | 2  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |    |    |
| 50               | 95                        | 22                            | 87  | 80  | 73  | 63  | 53  | 45  | 32  | 25 | 20 | 18           | 16 | 14  | 12  | 10  | 8   | 6   | 4   | 2  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |    |    |
| 52               | 103                       | 23                            | 94  | 86  | 79  | 68  | 58  | 47  | 35  | 27 | 20 | 18           | 16 | 14  | 12  | 10  | 8   | 6   | 4   | 2  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |    |    |
| 54               | 111                       | 26                            | 103 | 94  | 86  | 74  | 62  | 51  | 38  | 30 | 24 | 19           | 16 | 14  | 12  | 10  | 8   | 6   | 4   | 2  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |    |    |
| 56               | 120                       | 28                            | 111 | 101 | 92  | 79  | 67  | 55  | 44  | 33 | 25 | 20           | 18 | 16  | 14  | 12  | 10  | 8   | 6   | 4  | 2  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |    |    |
| 58               | 129                       | 30                            | 119 | 110 | 100 | 85  | 73  | 59  | 44  | 33 | 25 | 20           | 18 | 16  | 14  | 12  | 10  | 8   | 6   | 4  | 2  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |    |    |
| 60               | 138                       | 32                            | 126 | 116 | 106 | 90  | 77  | 63  | 47  | 37 | 27 | 20           | 18 | 16  | 14  | 12  | 10  | 8   | 6   | 4  | 2  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |    |    |
| 62               | 148                       | 34                            | 137 | 125 | 114 | 98  | 83  | 68  | 51  | 37 | 27 | 20           | 18 | 16  | 14  | 12  | 10  | 8   | 6   | 4  | 2  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |    |    |
| 64               | 158                       | 37                            | 147 | 131 | 122 | 105 | 89  | 73  | 54  | 36 | 26 | 20           | 18 | 16  | 14  | 12  | 10  | 8   | 6   | 4  | 2  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |    |    |
| 66               | 168                       | 39                            | 156 | 145 | 130 | 112 | 95  | 77  | 58  | 45 | 35 | 27           | 20 | 18  | 16  | 14  | 12  | 10  | 8   | 6  | 4  | 2   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |    |    |
| 68               | 179                       | 42                            | 165 | 151 | 139 | 119 | 102 | 83  | 63  | 49 | 36 | 25           | 20 | 18  | 16  | 14  | 12  | 10  | 8   | 6  | 4  | 2   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |    |    |
| 70               | 190                       | 45                            | 176 | 161 | 148 | 126 | 107 | 88  | 65  | 45 | 32 | 25           | 20 | 18  | 16  | 14  | 12  | 10  | 8   | 6  | 4  | 2   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |    |    |
| 72               | 201                       | 47                            | 185 | 170 | 155 | 133 | 115 | 94  | 70  | 50 | 35 | 25           | 20 | 18  | 16  | 14  | 12  | 10  | 8   | 6  | 4  | 2   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |    |    |
| 74               | 213                       | 50                            | 196 | 180 | 164 | 142 | 122 | 99  | 75  | 52 | 36 | 26           | 20 | 18  | 16  | 14  | 12  | 10  | 8   | 6  | 4  | 2   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |    |    |
| 76               | 225                       | 53                            | 207 | 190 | 173 | 149 | 129 | 105 | 79  | 51 | 35 | 25           | 20 | 18  | 16  | 14  | 12  | 10  | 8   | 6  | 4  | 2   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |    |    |
| 78               | 238                       | 56                            | 219 | 201 | 183 | 158 | 136 | 111 | 83  | 53 | 36 | 25           | 20 | 18  | 16  | 14  | 12  | 10  | 8   | 6  | 4  | 2   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |    |    |
| 80               | 250                       | 59                            | 230 | 211 | 193 | 166 | 143 | 117 | 88  | 55 | 35 | 25           | 20 | 18  | 16  | 14  | 12  | 10  | 8   | 6  | 4  | 2   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |    |    |
| 82               | 263                       | 62                            | 243 | 222 | 202 | 175 | 150 | 122 | 92  | 57 | 36 | 26           | 20 | 18  | 16  | 14  | 12  | 10  | 8   | 6  | 4  | 2   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |    |    |
| 84               | 277                       | 66                            | 254 | 234 | 213 | 184 | 158 | 129 | 97  | 59 | 37 | 27           | 21 | 178 | 155 | 132 | 110 | 88  | 67  | 45 | 24 | 201   | 188 | 172 | 150 | 125 | 110 | 90  | 69  | 51  |    |    |
| 86               | 290                       | 69                            | 267 | 245 | 223 | 193 | 166 | 135 | 102 | 72 | 50 | 35           | 27 | 21  | 193 | 177 | 157 | 135 | 112 | 98 | 77 | 56  | 273 | 250 | 234 | 212 | 198 | 178 | 158 | 132 | 95 |    |
| 88               | 304                       | 73                            | 281 | 257 | 234 | 203 | 174 | 142 | 107 | 86 | 56 | 36           | 26 | 20  | 18  | 16  | 14  | 12  | 10  | 8  | 6  | 4   | 2   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1  |    |
| 90               | 318                       | 76                            | 293 | 269 | 245 | 212 | 182 | 159 | 112 | 99 | 59 | 37           | 27 | 21  | 197 | 179 | 158 | 134 | 111 | 89 | 68 | 45  | 24  | 221 | 202 | 188 | 167 | 147 | 127 | 106 | 81 | 61 |

| D.b.h.<br>inches                                | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     |     |     | Log position |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |
|---|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
|   |             |            | 3                             |     |     |     | 4   |     |     |     | 5   |     |     |     | 6            |     |     |     | 7   |     |     |     | 8   |     |    |    |    |    |    |    |    |
|   |             |            | 2                             | 2   | 3   | 2   | 3   | 2   | 3   | 4   | 2   | 3   | 4   | 2   | 3            | 4   | 5   | 2   | 3   | 4   | 5   | 6   | 2   | 3   | 4  | 5  |    |    |    |    |    |
| Gross Scribner Decimal C volume of 16-foot logs |             |            |                               |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |
| 14  | 6           | 3          | 4                             | 5   | 4   | 5   | 7   | 6   | 7   | 5   | 11  | 9   | 6   | 12  | 9            | 6   | 15  | 11  | 8   | 11  | 10  | 10  | 23  | 20  | 17 | 13 | 10 |    |    |    |    |
| 16  | 8           | 3          | 6                             | 7   | 5   | 8   | 6   | 7   | 9   | 7   | 11  | 11  | 9   | 18  | 11           | 9   | 21  | 18  | 11  | 15  | 12  | 10  | 20  | 18  | 16 | 13 | 11 |    |    |    |    |
| 18  | 11          | 3          | 7                             | 8   | 6   | 10  | 7   | 9   | 12  | 10  | 20  | 16  | 11  | 25  | 21           | 16  | 11  | 26  | 20  | 18  | 16  | 15  | 15  | 15  | 13 | 11 | 10 |    |    |    |    |
| 20  | 14          | 3          | 8                             | 11  | 13  | 10  | 15  | 9   | 12  | 19  | 22  | 18  | 13  | 28  | 21           | 16  | 11  | 20  | 18  | 16  | 15  | 14  | 13  | 12  | 11 | 10 | 9  |    |    |    |    |
| 22  | 17          | 3          | 11                            | 13  | 10  | 19  | 12  | 10  | 15  | 22  | 25  | 18  | 13  | 29  | 24           | 19  | 13  | 22  | 18  | 15  | 14  | 13  | 12  | 11  | 10 | 9  | 8  |    |    |    |    |
| 24  | 20          | 4          | 13                            | 15  | 12  | 19  | 14  | 13  | 15  | 25  | 28  | 20  | 15  | 32  | 28           | 25  | 20  | 18  | 16  | 15  | 14  | 13  | 12  | 11  | 10 | 9  | 8  |    |    |    |    |
| 26  | 24          | 5          | 16                            | 22  | 15  | 22  | 15  | 18  | 16  | 25  | 28  | 22  | 18  | 32  | 28           | 25  | 20  | 18  | 16  | 15  | 14  | 13  | 12  | 11  | 10 | 9  | 8  |    |    |    |    |
| 28  | 28          | 0          | 10                            | 19  | 12  | 22  | 15  | 18  | 13  | 25  | 28  | 22  | 18  | 31  | 28           | 25  | 20  | 18  | 16  | 15  | 14  | 13  | 12  | 11  | 10 | 9  | 8  |    |    |    |    |
| 30  | 33          | 7          | 8                             | 17  | 26  | 21  | 15  | 21  | 15  | 29  | 24  | 28  | 22  | 32  | 28           | 25  | 23  | 21  | 17  | 12  | 10  | 10  | 23  | 20  | 17 | 15 | 13 |    |    |    |    |
| 32  | 38          | 9          | 11                            | 19  | 12  | 20  | 15  | 20  | 15  | 32  | 28  | 22  | 18  | 43  | 36           | 32  | 28  | 25  | 23  | 20  | 18  | 16  | 15  | 14  | 13 | 12 | 11 | 10 |    |    |    |
| 34  | 43          | 11         | 19                            | 26  | 12  | 29  | 12  | 20  | 15  | 34  | 31  | 25  | 20  | 48  | 41           | 36  | 32  | 29  | 26  | 23  | 20  | 18  | 16  | 15  | 14 | 13 | 12 | 11 |    |    |    |
| 36  | 49          | 12         | 55                            | 12  | 12  | 29  | 12  | 20  | 15  | 34  | 31  | 25  | 20  | 48  | 41           | 36  | 32  | 29  | 26  | 23  | 20  | 18  | 16  | 15  | 14 | 13 | 12 | 11 |    |    |    |
| 38  | 55          | 12         | 55                            | 12  | 12  | 29  | 12  | 20  | 15  | 34  | 31  | 25  | 20  | 48  | 41           | 36  | 32  | 29  | 26  | 23  | 20  | 18  | 16  | 15  | 14 | 13 | 12 | 11 |    |    |    |
| 40  | 61          | 14         | 14                            | 32  | 10  | 40  | 28  | 20  | 15  | 34  | 31  | 25  | 20  | 53  | 45           | 40  | 36  | 32  | 29  | 26  | 23  | 20  | 18  | 16  | 15 | 14 | 13 | 12 |    |    |    |
| 42  | 66          | 15         | 15                            | 35  | 15  | 31  | 15  | 20  | 15  | 34  | 31  | 25  | 20  | 53  | 45           | 40  | 36  | 32  | 29  | 26  | 23  | 20  | 18  | 16  | 15 | 14 | 13 | 12 |    |    |    |
| 44  | 75          | 17         | 17                            | 35  | 15  | 31  | 15  | 20  | 15  | 34  | 31  | 25  | 20  | 53  | 45           | 40  | 36  | 32  | 29  | 26  | 23  | 20  | 18  | 16  | 15 | 14 | 13 | 12 |    |    |    |
| 46  | 82          | 19         | 19                            | 35  | 15  | 31  | 15  | 20  | 15  | 34  | 31  | 25  | 20  | 53  | 45           | 40  | 36  | 32  | 29  | 26  | 23  | 20  | 18  | 16  | 15 | 14 | 13 | 12 |    |    |    |
| 48  | 89          | 20         | 20                            | 35  | 15  | 31  | 15  | 20  | 15  | 34  | 31  | 25  | 20  | 53  | 45           | 40  | 36  | 32  | 29  | 26  | 23  | 20  | 18  | 16  | 15 | 14 | 13 | 12 |    |    |    |
| 50  | 98          | 22         | 90                            | 90  | 70  | 49  | 97  | 76  | 53  | 101 | 85  | 66  | 48  | 104 | 90           | 76  | 61  | 43  | 37  | 30  | 117 | 102 | 86  | 69  | 53 | 57 | 59 | 57 | 55 |    |    |
| 52  | 106         | 24         | 26                            | 26  | 29  | 106 | 82  | 57  | 109 | 92  | 71  | 51  | 112 | 97  | 82           | 66  | 51  | 37  | 30  | 110 | 125 | 108 | 93  | 75  | 60 | 45 | 40 | 35 | 33 |    |    |
| 54  | 114         | 28         | 29                            | 29  | 29  | 106 | 82  | 57  | 109 | 92  | 71  | 51  | 112 | 97  | 82           | 66  | 51  | 37  | 30  | 110 | 125 | 108 | 93  | 75  | 60 | 45 | 40 | 35 | 33 |    |    |
| 56  | 124         | 31         | 31                            | 31  | 31  | 111 | 67  | 62  | 116 | 99  | 70  | 55  | 119 | 104 | 87           | 71  | 50  | 37  | 30  | 110 | 125 | 108 | 93  | 75  | 60 | 45 | 40 | 35 | 33 |    |    |
| 58  | 132         | 31         | 31                            | 31  | 31  | 112 | 94  | 67  | 120 | 106 | 82  | 60  | 129 | 112 | 94           | 76  | 54  | 37  | 30  | 110 | 125 | 108 | 93  | 75  | 60 | 45 | 40 | 35 | 33 |    |    |
| 60  | 153         | 36         | 38                            | 38  | 38  | 113 | 114 | 88  | 64  | 101 | 85  | 66  | 48  | 104 | 90           | 76  | 61  | 43  | 37  | 30  | 110 | 125 | 108 | 93  | 75 | 60 | 45 | 40 | 35 | 33 |    |
| 62  | 163         | 41         | 173                           | 173 | 173 | 113 | 114 | 121 | 94  | 103 | 100 | 73  | 57  | 117 | 113          | 115 | 93  | 67  | 51  | 37  | 30  | 110 | 125 | 108 | 93 | 75 | 60 | 45 | 40 | 35 |    |
| 64  | 173         | 41         | 184                           | 184 | 184 | 113 | 114 | 121 | 94  | 103 | 100 | 73  | 57  | 117 | 113          | 115 | 93  | 67  | 51  | 37  | 30  | 110 | 125 | 108 | 93 | 75 | 60 | 45 | 40 | 35 |    |
| 66  | 184         | 43         | 184                           | 184 | 184 | 113 | 114 | 121 | 94  | 103 | 100 | 73  | 57  | 117 | 113          | 115 | 93  | 67  | 51  | 37  | 30  | 110 | 125 | 108 | 93 | 75 | 60 | 45 | 40 | 35 |    |
| 68  | 190         | 46         | 190                           | 190 | 190 | 113 | 114 | 121 | 94  | 103 | 100 | 73  | 57  | 117 | 113          | 115 | 93  | 67  | 51  | 37  | 30  | 110 | 125 | 108 | 93 | 75 | 60 | 45 | 40 | 35 |    |
| 70  | 208         | 49         | 219                           | 219 | 219 | 193 | 193 | 165 | 127 | 92  | 108 | 87  | 62  | 117 | 113          | 115 | 93  | 67  | 51  | 37  | 30  | 110 | 125 | 108 | 93 | 75 | 60 | 45 | 40 | 35 |    |
| 72  | 219         | 52         | 232                           | 232 | 232 | 204 | 204 | 174 | 134 | 96  | 209 | 183 | 154 | 125 | 90           | 213 | 190 | 165 | 135 | 107 | 86  | 62  | 45  | 40  | 35 | 33 | 31 | 29 | 27 | 25 | 23 |
| 74  | 232         | 55         | 242                           | 242 | 242 | 214 | 214 | 183 | 143 | 103 | 220 | 193 | 162 | 131 | 95           | 223 | 201 | 174 | 142 | 107 | 86  | 62  | 45  | 40  | 35 | 33 | 31 | 29 | 27 | 25 | 23 |
| 76  | 242         | 58         | 242                           | 242 | 242 | 214 | 214 | 183 | 143 | 103 | 220 | 193 | 162 | 131 | 95           | 223 | 201 | 174 | 142 | 107 | 86  | 62  | 45  | 40  | 35 | 33 | 31 | 29 | 27 | 25 | 23 |
| 78  | 242         | 58         | 242                           | 242 | 242 | 214 | 214 | 183 | 143 | 103 | 220 | 193 | 162 | 131 | 95           | 223 | 201 | 174 | 142 | 107 | 86  | 62  | 45  | 40  | 35 | 33 | 31 | 29 | 27 | 25 | 23 |
| 80  | 257         | 61         | 257                           | 257 | 257 | 214 | 214 | 183 | 143 | 103 | 220 | 193 | 162 | 131 | 95           | 223 | 201 | 174 | 142 | 107 | 86  | 62  | 45  | 40  | 35 | 33 | 31 | 29 | 27 | 25 | 23 |
| 82  | 271         | 64         | 284                           | 284 | 284 | 250 | 250 | 214 | 174 | 134 | 220 | 193 | 162 | 131 | 95           | 223 | 201 | 174 | 142 | 107 | 86  | 62  | 45  | 40  | 35 | 33 | 31 | 29 | 27 | 25 | 23 |
| 84  | 299         | 71         | 312                           | 312 | 312 | 263 | 263 | 224 | 174 | 134 | 220 | 193 | 162 | 131 | 95           | 223 | 201 | 174 | 142 | 107 | 86  | 62  | 45  | 40  | 35 | 33 | 31 | 29 | 27 | 25 | 23 |
| 86  | 312         | 75         | 312                           | 312 | 312 | 274 | 274 | 235 | 183 | 143 | 220 | 193 | 162 | 131 | 95           | 223 | 201 | 174 | 142 | 107 | 86  | 62  | 45  | 40  | 35 | 33 | 31 | 29 | 27 | 25 | 23 |
| 88  | 327         | 78         | 327                           | 327 | 327 | 288 | 288 | 246 | 192 | 138 | 220 | 193 | 162 | 131 | 95           | 223 | 201 | 174 | 142 | 107 | 86  | 62  | 45  | 40  | 35 | 33 | 31 | 29 | 27 | 25 | 23 |
| 90  | 327         | 78         | 327                           | 327 | 327 | 288 | 288 | 246 | 192 | 138 | 220 | 193 | 162 | 131 | 95           | 223 | 201 | 174 | 142 | 107 | 86  | 62  | 45  | 40  | 35 | 33 | 31 | 29 | 27 | 25 | 23 |



| D.b.h.<br>inches                                | Batt<br>log<br>Top<br>log | Tree height in number of logs |   |   |   |   |   |   |   |   |   | Log position |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|---|---------------------------|-------------------------------|---|---|---|---|---|---|---|---|---|--------------|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|   |                           | 3                             |   |   |   | 4 |   |   |   | 5 |   |              |   | 6 |   |   |   | 7  |    |    |    | 8  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|   |                           | 2                             | 2 | 3 | 2 | 3 | 4 | 2 | 3 | 4 | 2 | 3            | 4 | 5 | 2 | 3 | 4 | 5  | 2  | 3  | 4  | 5  | 6  | 2  | 3  | 4  | 5  | 6  | 7  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| Gross Scribner Decimal C volume of 16-foot logs |                           |                               |   |   |   |   |   |   |   |   |   |              |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 14  | 6                         | 3                             | 5 | 5 | 4 | 7 | 9 | 5 | 7 | 5 | 7 | 9            | 5 | 7 | 9 | 7 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 | 56 | 58 | 60 | 62 | 64 | 66 | 68 | 70 | 72 | 74 | 76 | 78 | 80 | 82 | 84 | 86 | 88 | 90 | 92 | 94 | 96 | 98 | 100 | 102 | 104 | 106 | 108 | 110 | 112 | 114 | 116 | 118 | 120 | 122 | 124 | 126 | 128 | 130 | 132 | 134 | 136 | 138 | 140 | 142 | 144 | 146 | 148 | 150 | 152 | 154 | 156 | 158 | 160 | 162 | 164 | 166 | 168 | 170 | 172 | 174 | 176 | 178 | 180 | 182 | 184 | 186 | 188 | 190 | 192 | 194 | 196 | 198 | 200 | 202 | 204 | 206 | 208 | 210 | 212 | 214 | 216 | 218 | 220 | 222 | 224 | 226 | 228 | 230 | 232 | 234 | 236 | 238 | 240 | 242 | 244 | 246 | 248 | 250 | 252 | 254 | 256 | 258 | 260 | 262 | 264 | 266 | 268 | 270 | 272 | 274 | 276 | 278 | 280 | 282 | 284 | 286 | 288 | 290 | 292 | 294 | 296 | 298 | 300 | 302 | 304 | 306 | 308 | 310 | 312 | 314 | 316 | 318 | 320 | 322 | 324 | 326 | 328 | 330 | 332 | 334 | 336 | 338 | 340 | 342 | 344 | 346 | 348 | 350 | 352 | 354 | 356 | 358 | 360 | 362 | 364 | 366 | 368 | 370 | 372 | 374 | 376 | 378 | 380 | 382 | 384 | 386 | 388 | 390 | 392 | 394 | 396 | 398 | 400 | 402 | 404 | 406 | 408 | 410 | 412 | 414 | 416 | 418 | 420 | 422 | 424 | 426 | 428 | 430 | 432 | 434 | 436 | 438 | 440 | 442 | 444 | 446 | 448 | 450 | 452 | 454 | 456 | 458 | 460 | 462 | 464 | 466 | 468 | 470 | 472 | 474 | 476 | 478 | 480 | 482 | 484 | 486 | 488 | 490 | 492 | 494 | 496 | 498 | 500 | 502 | 504 | 506 | 508 | 510 | 512 | 514 | 516 | 518 | 520 | 522 | 524 | 526 | 528 | 530 | 532 | 534 | 536 | 538 | 540 | 542 | 544 | 546 | 548 | 550 | 552 | 554 | 556 | 558 | 560 | 562 | 564 | 566 | 568 | 570 | 572 | 574 | 576 | 578 | 580 | 582 | 584 | 586 | 588 | 590 | 592 | 594 | 596 | 598 | 600 | 602 | 604 | 606 | 608 | 610 | 612 | 614 | 616 | 618 | 620 | 622 | 624 | 626 | 628 | 630 | 632 | 634 | 636 | 638 | 640 | 642 | 644 | 646 | 648 | 650 | 652 | 654 | 656 | 658 | 660 | 662 | 664 | 666 | 668 | 670 | 672 | 674 | 676 | 678 | 680 | 682 | 684 | 686 | 688 | 690 | 692 | 694 | 696 | 698 | 700 | 702 | 704 | 706 | 708 | 710 | 712 | 714 | 716 | 718 | 720 | 722 | 724 | 726 | 728 | 730 | 732 | 734 | 736 | 738 | 740 | 742 | 744 | 746 | 748 | 750 | 752 | 754 | 756 | 758 | 760 | 762 | 764 | 766 | 768 | 770 | 772 | 774 | 776 | 778 | 780 | 782 | 784 | 786 | 788 | 790 | 792 | 794 | 796 | 798 | 800 | 802 | 804 | 806 | 808 | 810 | 812 | 814 | 816 | 818 | 820 | 822 | 824 | 826 | 828 | 830 | 832 | 834 | 836 | 838 | 840 | 842 | 844 | 846 | 848 | 850 | 852 | 854 | 856 | 858 | 860 | 862 | 864 | 866 | 868 | 870 | 872 | 874 | 876 | 878 | 880 | 882 | 884 | 886 | 888 | 890 | 892 | 894 | 896 | 898 | 900 | 902 | 904 | 906 | 908 | 910 | 912 | 914 | 916 | 918 | 920 | 922 | 924 | 926 | 928 | 930 | 932 | 934 | 936 | 938 | 940 | 942 | 944 | 946 | 948 | 950 | 952 | 954 | 956 | 958 | 960 | 962 | 964 | 966 | 968 | 970 | 972 | 974 | 976 | 978 | 980 | 982 | 984 | 986 | 988 | 990 | 992 | 994 | 996 | 998 | 1000 |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     | Gross Scribner Decimal C volume of 16-foot logs |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|                  |             |            | 9                             |     |     |     |     | 10  |     |     |     |     | 11  |     |     |     |     | 12  |     |     |     |     |     |     |     |     |    |
|                  |             |            | 2                             | 3   | 4   | 5   | 6   | 2   | 3   | 4   | 5   | 6   | 2   | 3   | 4   | 5   | 6   | 2   | 3   | 4   | 5   | 6   |     |     |     |     |    |
| 28               | 29          | 6          | 27                            | 25  | 22  | 19  | 16  | 13  | 9   | 79  | 72  | 66  | 60  | 52  | 45  | 36  | 27  | 111 | 104 | 95  | 88  | 78  | 69  | 59  | 49  | 38  |    |
| 30               | 31          | 7          | 31                            | 29  | 26  | 22  | 19  | 15  | 11  | 86  | 79  | 72  | 65  | 58  | 49  | 39  | 30  | 119 | 112 | 102 | 95  | 84  | 74  | 68  | 53  | 40  |    |
| 32               | 33          | 8          | 36                            | 33  | 30  | 26  | 22  | 17  | 13  | 86  | 79  | 71  | 63  | 53  | 43  | 33  | 27  | 127 | 119 | 108 | 101 | 99  | 78  | 68  | 57  | 43  |    |
| 34               | 35          | 10         | 41                            | 37  | 34  | 29  | 25  | 20  | 15  | 102 | 93  | 85  | 78  | 68  | 58  | 47  | 36  | 111 | 104 | 95  | 88  | 78  | 69  | 59  | 49  | 38  |    |
| 36               | 37          | 11         | 46                            | 42  | 40  | 39  | 35  | 30  | 22  | 17  | 111 | 101 | 93  | 84  | 73  | 63  | 51  | 39  | 119 | 112 | 102 | 95  | 84  | 74  | 68  | 53  | 40 |
| 38               | 39          | 12         | 52                            | 48  | 43  | 39  | 35  | 31  | 26  | 19  | 119 | 109 | 99  | 90  | 80  | 68  | 55  | 44  | 127 | 119 | 108 | 101 | 99  | 78  | 68  | 57  | 43 |
| 40               | 43          | 14         | 58                            | 53  | 48  | 44  | 35  | 29  | 21  | 94  | 86  | 79  | 71  | 63  | 53  | 43  | 33  | 111 | 104 | 95  | 88  | 78  | 69  | 59  | 49  | 38  |    |
| 42               | 70          | 16         | 64                            | 59  | 53  | 49  | 40  | 35  | 26  | 20  | 79  | 72  | 66  | 60  | 52  | 45  | 36  | 27  | 111 | 104 | 95  | 88  | 78  | 69  | 59  | 49  | 38 |
| 44               | 77          | 17         | 71                            | 65  | 55  | 51  | 43  | 35  | 28  | 20  | 86  | 79  | 72  | 65  | 58  | 49  | 39  | 30  | 119 | 112 | 102 | 95  | 84  | 74  | 68  | 53  | 40 |
| 46               | 84          | 19         | 78                            | 71  | 60  | 51  | 43  | 31  | 24  | 17  | 86  | 79  | 72  | 65  | 58  | 49  | 39  | 30  | 127 | 119 | 108 | 101 | 99  | 78  | 68  | 57  | 43 |
| 48               | 92          | 21         | 85                            | 78  | 68  | 58  | 49  | 39  | 28  | 20  | 86  | 79  | 72  | 65  | 58  | 49  | 39  | 30  | 119 | 112 | 102 | 95  | 84  | 74  | 68  | 53  | 40 |
| 50               | 100         | 23         | 93                            | 85  | 77  | 66  | 56  | 46  | 34  | 24  | 94  | 86  | 79  | 71  | 63  | 53  | 43  | 33  | 111 | 104 | 95  | 88  | 78  | 69  | 59  | 49  | 38 |
| 52               | 109         | 25         | 101                           | 92  | 84  | 72  | 61  | 50  | 37  | 26  | 102 | 93  | 85  | 78  | 68  | 58  | 47  | 36  | 111 | 104 | 95  | 88  | 78  | 69  | 59  | 49  | 38 |
| 54               | 118         | 27         | 109                           | 100 | 91  | 78  | 66  | 54  | 40  | 28  | 111 | 101 | 93  | 84  | 73  | 63  | 51  | 39  | 119 | 112 | 102 | 95  | 84  | 74  | 68  | 53  | 40 |
| 56               | 127         | 29         | 124                           | 117 | 107 | 98  | 84  | 71  | 58  | 42  | 126 | 116 | 106   | 96  | 85  | 72  | 57  | 44  | 127 | 119 | 108 | 101 | 99  | 78  | 68  | 57  | 43 |
| 58               | 136         | 32         | 124                           | 117 | 104 | 91  | 76  | 62  | 46  | 30  | 126 | 116 | 106   | 96  | 85  | 72  | 57  | 44  | 127 | 119 | 108 | 101 | 99  | 78  | 68  | 57  | 43 |
| 60               | 146         | 34         | 136                           | 124 | 113 | 97  | 83  | 67  | 50  | 37  | 137 | 125 | 115   | 104 | 92  | 78  | 63  | 48  | 138 | 129 | 118 | 110 | 97  | 85  | 74  | 62  | 47 |
| 62               | 157         | 37         | 145                           | 133 | 121 | 104 | 88  | 72  | 54  | 37  | 137 | 123 | 112   | 98  | 84  | 68  | 52  | 41  | 138 | 129 | 118 | 110 | 97  | 85  | 74  | 62  | 47 |
| 64               | 168         | 39         | 155                           | 142 | 129 | 111 | 95  | 77  | 58  | 37  | 157 | 141 | 132   | 119 | 105 | 90  | 72  | 56  | 158 | 147 | 135 | 126 | 111 | 98  | 85  | 74  | 62 |
| 66               | 178         | 42         | 163                           | 150 | 137 | 118 | 101 | 83  | 62  | 46  | 167 | 153 | 140   | 127 | 112 | 95  | 77  | 59  | 167 | 157 | 143 | 134 | 118 | 104 | 90  | 75  | 62 |
| 68               | 189         | 45         | 174                           | 160 | 145 | 126 | 108 | 88  | 66  | 46  | 177 | 163 | 153   | 136 | 119 | 101 | 82  | 63  | 178 | 167 | 153 | 142 | 126 | 111 | 96  | 80  | 61 |
| 70               | 201         | 47         | 185                           | 170 | 155 | 133 | 121 | 104 | 88  | 66  | 189 | 173 | 158   | 146 | 126 | 108 | 88  | 67  | 189 | 177 | 162 | 151 | 134 | 118 | 102 | 85  | 66 |
| 72               | 213         | 50         | 196                           | 180 | 164 | 142 | 122 | 99  | 75  | 50  | 201 | 183 | 168   | 152 | 135 | 114 | 93  | 71  | 201 | 188 | 172 | 161 | 142 | 125 | 109 | 96  | 73 |
| 74               | 226         | 53         | 208                           | 191 | 174 | 150 | 129 | 105 | 79  | 52  | 212 | 194 | 177   | 162 | 143 | 121 | 99  | 75  | 212 | 199 | 182 | 170 | 150 | 132 | 116 | 96  | 73 |
| 76               | 238         | 56         | 219                           | 201 | 183 | 158 | 136 | 111 | 83  | 63  | 223 | 205 | 187   | 170 | 150 | 128 | 104 | 80  | 224 | 209 | 192 | 179 | 158 | 139 | 122 | 101 | 77 |
| 78               | 251         | 60         | 231                           | 212 | 193 | 167 | 143 | 117 | 88  | 68  | 235 | 216 | 197   | 180 | 158 | 135 | 110 | 84  | 236 | 221 | 203 | 189 | 167 | 147 | 128 | 107 | 81 |
| 80               | 265         | 63         | 244                           | 204 | 176 | 151 | 123 | 92  | 74  | 248 | 227 | 208 | 189   | 167 | 142 | 116 | 89  | 219 | 233 | 214 | 199 | 176 | 155 | 135 | 112 | 86  |    |
| 82               | 279         | 66         | 257                           | 235 | 214 | 185 | 159 | 130 | 98  | 261 | 240 | 219 | 199   | 176 | 150 | 122 | 93  | 262 | 245 | 225 | 209 | 185 | 163 | 142 | 119 | 91  |    |
| 84               | 293         | 70         | 271                           | 248 | 226 | 195 | 168 | 137 | 104 | 276 | 253 | 231 | 210   | 185 | 158 | 129 | 99  | 276 | 259 | 238 | 221 | 190 | 172 | 150 | 125 | 96  |    |
| 86               | 306         | 73         | 283                           | 259 | 236 | 204 | 175 | 143 | 108 | 288 | 264 | 241 | 219   | 193 | 165 | 134 | 103 | 288 | 270 | 257 | 231 | 204 | 180 | 157 | 131 | 100 |    |
| 88               | 322         | 77         | 296                           | 272 | 247 | 214 | 184 | 150 | 112 | 302 | 277 | 253 | 230   | 202 | 173 | 141 | 107 | 302 | 286 | 264 | 242 | 214 | 188 | 164 | 137 | 105 |    |
| 90               | 337         | 81         | 310                           | 285 | 259 | 224 | 193 | 157 | 118 | 316 | 290 | 265 | 244   | 213 | 181 | 147 | 113 | 317 | 297 | 272 | 253 | 224 | 197 | 172 | 144 | 110 |    |

| D.b.h.<br>inches                                | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     |     |     | Tree height in number of logs |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |
|---|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|
|   |             |            | 3                             |     |     |     | 4   |     |     |     | 5   |     |     |     | 6                             |     |     |     | 7   |     |     |     | 8   |    |    |    |    |    |    |    |    |    |    |    |
|   |             |            | 2                             | 3   | 2   | 3   | 2   | 3   | 4   | 2   | 3   | 4   | 2   | 3   | 4                             | 2   | 3   | 4   | 2   | 3   | 4   | 2   | 3   | 4  | 2  | 3  |    |    |    |    |    |    |    |    |
| Gross Scribner Decimal C volume of 16-foot logs |             |            |                               |     |     |     |     |     |     |     |     |     |     |     |                               |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |
| 12  | 4           | 3          | 4                             | 5   | 6   | 4   | 5   | 6   | 5   | 7   | 6   | 5   | 7   | 6   | 5                             | 7   | 6   | 5   | 7   | 6   | 5   | 7   | 6   | 5  | 7  | 6  | 5  |    |    |    |    |    |    |    |
| 14  | 0           | 3          | 5                             | 6   | 7   | 5   | 6   | 7   | 5   | 10  | 8   | 7   | 12  | 9   | 7                             | 13  | 11  | 8   | 15  | 13  | 10  | 12  | 8   | 14 | 11 | 9  | 16 |    |    |    |    |    |    |    |
| 16  | 9           | 3          | 6                             | 8   | 7   | 9   | 7   | 8   | 11  | 10  | 11  | 9   | 15  | 11  | 8                             | 19  | 16  | 12  | 18  | 15  | 13  | 10  | 14  | 11 | 9  | 17 | 15 |    |    |    |    |    |    |    |
| 18  | 11          | 3          | 6                             | 8   | 7   | 9   | 7   | 8   | 10  | 11  | 10  | 9   | 17  | 11  | 14                            | 23  | 19  | 14  | 20  | 17  | 12  | 18  | 15  | 13 | 10 | 17 | 15 |    |    |    |    |    |    |    |
| 20  | 14          | 3          | 10                            | 11  | 8   | 11  | 9   | 8   | 12  | 9   | 7   | 15  | 11  | 13  | 10                            | 19  | 14  | 10  | 27  | 23  | 20  | 16  | 11  | 28 | 25 | 21 | 18 |    |    |    |    |    |    |    |
| 22  | 18          | 3          | 11                            | 14  | 11  | 14  | 11  | 17  | 11  | 18  | 14  | 9   | 15  | 11  | 16                            | 12  | 8   | 19  | 16  | 13  | 10  | 17  | 12  | 10 | 14 | 11 | 9  |    |    |    |    |    |    |    |
| 24  | 22          | 4          | 14                            | 17  | 17  | 20  | 13  | 22  | 16  | 11  | 16  | 11  | 22  | 17  | 20                            | 14  | 17  | 12  | 17  | 23  | 20  | 16  | 11  | 28 | 25 | 21 | 18 |    |    |    |    |    |    |    |
| 26  | 26          | 5          | 17                            | 21  | 20  | 13  | 22  | 16  | 11  | 22  | 16  | 11  | 27  | 22  | 17                            | 12  | 17  | 12  | 17  | 23  | 20  | 16  | 11  | 28 | 25 | 21 | 18 |    |    |    |    |    |    |    |
| 28  | 30          | 6          | 21                            | 16  | 25  | 20  | 14  | 25  | 20  | 14  | 25  | 20  | 14  | 27  | 22                            | 17  | 12  | 17  | 12  | 17  | 23  | 20  | 16  | 11 | 28 | 25 | 21 | 18 |    |    |    |    |    |    |
| 30  | 35          | 7          | 28                            | 18  | 29  | 23  | 16  | 31  | 26  | 20  | 17  | 32  | 27  | 23  | 18                            | 13  | 32  | 29  | 25  | 21  | 17  | 12  | 10  | 28 | 25 | 21 | 18 |    |    |    |    |    |    |    |
| 32  | 40          | 9          | 31                            | 22  | 34  | 26  | 18  | 35  | 30  | 23  | 16  | 36  | 31  | 26  | 21                            | 15  | 37  | 33  | 28  | 25  | 21  | 17  | 12  | 10 | 28 | 25 | 21 | 18 |    |    |    |    |    |    |
| 34  | 46          | 10         | 36                            | 21  | 38  | 30  | 21  | 40  | 34  | 26  | 18  | 41  | 36  | 30  | 21                            | 17  | 42  | 38  | 32  | 27  | 22  | 16  | 10  | 28 | 25 | 21 | 18 |    |    |    |    |    |    |    |
| 36  | 52          | 11         | 40                            | 27  | 43  | 34  | 24  | 45  | 36  | 30  | 21  | 46  | 34  | 27  | 19                            | 13  | 48  | 42  | 37  | 31  | 25  | 21  | 18  | 10 | 28 | 25 | 21 | 18 |    |    |    |    |    |    |
| 38  | 58          | 13         | 45                            | 31  | 49  | 38  | 26  | 51  | 43  | 33  | 24  | 52  | 46  | 38  | 31                            | 21  | 53  | 47  | 41  | 35  | 28  | 21  | 18  | 10 | 28 | 25 | 21 | 18 |    |    |    |    |    |    |
| 40  | 65          | 14         | 51                            | 34  | 55  | 42  | 30  | 57  | 48  | 37  | 26  | 58  | 51  | 43  | 34                            | 24  | 59  | 53  | 46  | 40  | 34  | 28  | 21  | 18 | 10 | 28 | 25 | 21 | 18 |    |    |    |    |    |
| 42  | 72          | 16         | 60                            | 47  | 67  | 53  | 33  | 63  | 53  | 41  | 29  | 65  | 50  | 47  | 38                            | 27  | 66  | 59  | 51  | 43  | 34  | 28  | 21  | 18 | 10 | 28 | 25 | 21 | 18 |    |    |    |    |    |
| 44  | 79          | 18         | 66                            | 52  | 75  | 60  | 40  | 70  | 65  | 50  | 33  | 71  | 62  | 52  | 42                            | 30  | 73  | 67  | 60  | 52  | 42  | 34  | 28  | 21 | 18 | 10 | 28 | 25 | 21 | 18 |    |    |    |    |
| 46  | 87          | 20         | 73                            | 57  | 73  | 60  | 42  | 83  | 71  | 54  | 39  | 85  | 74  | 62  | 51                            | 36  | 87  | 77  | 70  | 62  | 52  | 42  | 34  | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |    |    |    |
| 48  | 95          | 22         | 80                            | 62  | 84  | 74  | 52  | 91  | 77  | 60  | 46  | 93  | 81  | 68  | 55                            | 39  | 95  | 84  | 73  | 63  | 50  | 40  | 34  | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |    |    |    |
| 50  | 103         | 24         | 87                            | 68  | 88  | 74  | 52  | 98  | 84  | 70  | 50  | 101 | 88  | 74  | 60                            | 46  | 103 | 92  | 80  | 68  | 54  | 44  | 34  | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |    |    |    |
| 52  | 112         | 26         | 94                            | 74  | 96  | 80  | 57  | 106 | 91  | 70  | 50  | 109 | 95  | 80  | 70                            | 50  | 112 | 99  | 86  | 74  | 64  | 54  | 44  | 34 | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |    |    |
| 54  | 121         | 28         | 102                           | 80  | 106 | 90  | 61  | 114 | 98  | 75  | 55  | 118 | 103 | 80  | 70                            | 50  | 120 | 107 | 92  | 80  | 64  | 54  | 44  | 34 | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |    |    |
| 56  | 131         | 30         | 110                           | 86  | 116 | 96  | 61  | 122 | 104 | 81  | 58  | 126 | 110 | 92  | 75                            | 53  | 129 | 114 | 99  | 85  | 68  | 51  | 41  | 34 | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |    |    |
| 58  | 140         | 32         | 118                           | 92  | 125 | 105 | 65  | 132 | 113 | 87  | 63  | 135 | 118 | 100 | 81                            | 58  | 139 | 123 | 107 | 92  | 74  | 55  | 41  | 34 | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |    |    |
| 60  | 151         | 35         | 127                           | 99  | 132 | 113 | 87  | 142 | 120 | 93  | 68  | 145 | 126 | 107 | 86                            | 62  | 148 | 132 | 115 | 98  | 79  | 60  | 41  | 34 | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |    |    |
| 62  | 161         | 38         | 132                           | 101 | 139 | 120 | 99  | 151 | 129 | 100 | 72  | 155 | 136 | 114 | 93                            | 66  | 158 | 141 | 123 | 109 | 84  | 64  | 41  | 34 | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |    |    |
| 64  | 172         | 40         | 141                           | 102 | 147 | 124 | 101 | 151 | 131 | 108 | 77  | 166 | 145 | 122 | 98                            | 70  | 168 | 150 | 131 | 113 | 90  | 68  | 41  | 34 | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |    |    |
| 66  | 183         | 43         | 150                           | 105 | 154 | 126 | 104 | 152 | 134 | 108 | 82  | 176 | 154 | 132 | 105                           | 75  | 179 | 159 | 139 | 119 | 96  | 72  | 41  | 34 | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |    |    |
| 68  | 195         | 46         | 158                           | 113 | 162 | 137 | 105 | 162 | 142 | 116 | 82  | 187 | 163 | 137 | 111                           | 80  | 190 | 170 | 147 | 127 | 102 | 77  | 55  | 41 | 34 | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |    |
| 70  | 207         | 49         | 162                           | 117 | 167 | 142 | 117 | 164 | 141 | 116 | 87  | 198 | 173 | 146 | 118                           | 84  | 202 | 180 | 156 | 135 | 108 | 80  | 55  | 41 | 34 | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |    |
| 72  | 219         | 52         | 174                           | 121 | 175 | 145 | 121 | 174 | 151 | 124 | 92  | 210 | 183 | 154 | 125                           | 89  | 213 | 191 | 165 | 143 | 114 | 86  | 55  | 41 | 34 | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |    |
| 74  | 232         | 55         | 181                           | 124 | 184 | 154 | 124 | 184 | 164 | 124 | 98  | 220 | 193 | 163 | 133                           | 95  | 225 | 201 | 175 | 154 | 120 | 91  | 55  | 41 | 34 | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |    |
| 76  | 245         | 58         | 186                           | 127 | 187 | 157 | 127 | 187 | 167 | 127 | 98  | 224 | 194 | 164 | 134                           | 96  | 226 | 202 | 176 | 156 | 121 | 92  | 55  | 41 | 34 | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |    |
| 78  | 258         | 61         | 194                           | 130 | 194 | 164 | 130 | 194 | 174 | 130 | 109 | 233 | 203 | 172 | 140                           | 101 | 238 | 213 | 184 | 159 | 127 | 96  | 55  | 41 | 34 | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |    |
| 80  | 272         | 65         | 204                           | 134 | 209 | 171 | 134 | 209 | 183 | 134 | 115 | 245 | 214 | 181 | 158                           | 105 | 250 | 224 | 194 | 168 | 134 | 101 | 60  | 41 | 34 | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |    |
| 82  | 286         | 68         | 215                           | 136 | 215 | 175 | 135 | 215 | 194 | 135 | 116 | 258 | 225 | 191 | 167                           | 106 | 252 | 225 | 194 | 168 | 134 | 101 | 60  | 41 | 34 | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |    |
| 84  | 301         | 72         | 224                           | 140 | 225 | 179 | 140 | 225 | 197 | 140 | 121 | 271 | 237 | 200 | 162                           | 117 | 275 | 245 | 215 | 186 | 156 | 121 | 60  | 41 | 34 | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |    |
| 86  | 315         | 75         | 237                           | 143 | 237 | 183 | 143 | 237 | 203 | 143 | 124 | 284 | 249 | 210 | 172                           | 123 | 291 | 260 | 235 | 196 | 166 | 134 | 101 | 60 | 41 | 34 | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |
| 88  | 331         | 79         | 247                           | 147 | 247 | 193 | 140 | 247 | 219 | 140 | 120 | 298 | 261 | 220 | 179                           | 129 | 303 | 272 | 243 | 203 | 163 | 134 | 101 | 60 | 41 | 34 | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |
| 90  | 346         | 83         | 305                           | 260 | 302 | 202 | 166 | 312 | 273 | 231 | 187 | 315 | 285 | 247 | 213                           | 170 | 318 | 285 | 255 | 213 | 170 | 134 | 101 | 60 | 41 | 34 | 28 | 21 | 18 | 10 | 28 | 25 | 21 | 18 |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |    |    |    |    |    |    |    |    |    | Log position |    |    |    |    |    |    | Gross Scribner Decimal C volume of 16-foot logs |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|------------------|-------------|------------|-------------------------------|----|----|----|----|----|----|----|----|----|--------------|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|                  |             |            | 9                             |    |    | 10 |    |    | 11 |    |    | 12 |              |    | 13 |    |    | 14 |    |   | 15 |    |    | 16 |    |    | 17 |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|                  |             |            | 2                             | 3  | 4  | 5  | 6  | 7  | 8  | 2  | 3  | 4  | 5            | 6  | 7  | 8  | 9  | 2  | 3  | 4   | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 28               | 30          | 32         | 34                            | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54           | 56 | 58 | 60 | 62 | 64 | 66 | 68  | 70 | 72 | 74 | 76 | 78 | 80 | 82 | 84 | 86 | 88 | 90 | 92 | 94 | 96 | 98 | 100 | 102 | 104 | 106 | 108 | 110 | 112 | 114 | 116 | 118 | 120 | 122 | 124 | 126 | 128 | 130 | 132 | 134 | 136 | 138 | 140 | 142 | 144 | 146 | 148 | 150 | 152 | 154 | 156 | 158 | 160 | 162 | 164 | 166 | 168 | 170 | 172 | 174 | 176 | 178 | 180 | 182 | 184 | 186 | 188 | 190 | 192 | 194 | 196 | 198 | 200 | 202 | 204 | 206 | 208 | 210 | 212 | 214 | 216 | 218 | 220 | 222 | 224 | 226 | 228 | 230 | 232 | 234 | 236 | 238 | 240 | 242 | 244 | 246 | 248 | 250 | 252 | 254 | 256 | 258 | 260 | 262 | 264 | 266 | 268 | 270 | 272 | 274 | 276 | 278 | 280 | 282 | 284 | 286 | 288 | 290 | 292 | 294 | 296 | 298 | 300 | 302 | 304 | 306 | 308 | 310 | 312 | 314 | 316 | 318 | 320 | 322 | 324 | 326 | 328 | 330 | 332 | 334 | 336 | 338 | 340 | 342 | 344 | 346 | 348 | 350 | 352 | 354 | 356 | 358 | 360 | 362 | 364 | 366 | 368 | 370 | 372 | 374 | 376 | 378 | 380 | 382 | 384 | 386 | 388 | 390 | 392 | 394 | 396 | 398 | 400 | 402 | 404 | 406 | 408 | 410 | 412 | 414 | 416 | 418 | 420 | 422 | 424 | 426 | 428 | 430 | 432 | 434 | 436 | 438 | 440 | 442 | 444 | 446 | 448 | 450 | 452 | 454 | 456 | 458 | 460 | 462 | 464 | 466 | 468 | 470 | 472 | 474 | 476 | 478 | 480 | 482 | 484 | 486 | 488 | 490 | 492 | 494 | 496 | 498 | 500 | 502 | 504 | 506 | 508 | 510 | 512 | 514 | 516 | 518 | 520 | 522 | 524 | 526 | 528 | 530 | 532 | 534 | 536 | 538 | 540 | 542 | 544 | 546 | 548 | 550 | 552 | 554 | 556 | 558 | 560 | 562 | 564 | 566 | 568 | 570 | 572 | 574 | 576 | 578 | 580 | 582 | 584 | 586 | 588 | 590 | 592 | 594 | 596 | 598 | 600 | 602 | 604 | 606 | 608 | 610 | 612 | 614 | 616 | 618 | 620 | 622 | 624 | 626 | 628 | 630 | 632 | 634 | 636 | 638 | 640 | 642 | 644 | 646 | 648 | 650 | 652 | 654 | 656 | 658 | 660 | 662 | 664 | 666 | 668 | 670 | 672 | 674 | 676 | 678 | 680 | 682 | 684 | 686 | 688 | 690 | 692 | 694 | 696 | 698 | 700 | 702 | 704 | 706 | 708 | 710 | 712 | 714 | 716 | 718 | 720 | 722 | 724 | 726 | 728 | 730 | 732 | 734 | 736 | 738 | 740 | 742 | 744 | 746 | 748 | 750 | 752 | 754 | 756 | 758 | 760 | 762 | 764 | 766 | 768 | 770 | 772 | 774 | 776 | 778 | 780 | 782 | 784 | 786 | 788 | 790 | 792 | 794 | 796 | 798 | 800 | 802 | 804 | 806 | 808 | 810 | 812 | 814 | 816 | 818 | 820 | 822 | 824 | 826 | 828 | 830 | 832 | 834 | 836 | 838 | 840 | 842 | 844 | 846 | 848 | 850 | 852 | 854 | 856 | 858 | 860 | 862 | 864 | 866 | 868 | 870 | 872 | 874 | 876 | 878 | 880 | 882 | 884 | 886 | 888 | 890 | 892 | 894 | 896 | 898 | 900 | 902 | 904 | 906 | 908 | 910 | 912 | 914 | 916 | 918 | 920 | 922 | 924 | 926 | 928 | 930 | 932 | 934 | 936 | 938 | 940 | 942 | 944 | 946 | 948 | 950 | 952 | 954 | 956 | 958 | 960 | 962 | 964 | 966 | 968 | 970 | 972 | 974 | 976 | 978 | 980 | 982 | 984 | 986 | 988 | 990 | 992 | 994 | 996 | 998 | 1000 |

| D.b.h.<br>inches                                | Butt<br>log | Top<br>log | Tree height in number of logs |    |    |    |    |    |     |     |     |     |     |     | Log position |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
|---|-------------|------------|-------------------------------|----|----|----|----|----|-----|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|---|
|   |             |            | 3                             |    |    |    | 4  |    |     |     | 5   |     |     |     | 6            |     |     |     | 7   |    |    |    | 8  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
|   |             |            | 2                             | 2  | 3  | 2  | 3  | 4  | 2   | 3   | 4   | 2   | 3   | 4   | 5            | 2   | 3   | 4   | 5   | 2  | 3  | 4  | 5  | 2  | 3  | 4  | 5  |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
| Gross Scribner Decimal C volume of 16-foot logs |             |            |                               |    |    |    |    |    |     |     |     |     |     |     |              |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
| 12  | 4           | 3          | 4                             | 5  | 6  | 4  | 5  | 6  | 8   | 6   | 5   | 10  | 9   | 13  | 11           | 14  | 10  | 7   | 6   | 9  | 11 | 14 | 10 | 7  | 10 | 17 | 13 |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
| 14  | 0           | 3          | 5                             | 6  | 7  | 5  | 6  | 7  | 8   | 6   | 5   | 10  | 12  | 14  | 10           | 15  | 12  | 9   | 10  | 7  | 11 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
| 16  | 9           | 3          | 5                             | 6  | 8  | 7  | 6  | 7  | 12  | 10  | 9   | 12  | 16  | 14  | 10           | 20  | 15  | 12  | 9   | 10 | 15 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
| 18  | 12          | 3          | 5                             | 6  | 8  | 7  | 6  | 7  | 14  | 10  | 9   | 12  | 17  | 14  | 10           | 22  | 17  | 14  | 12  | 15 | 17 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
| 20  | 15          | 3          | 5                             | 6  | 8  | 7  | 6  | 7  | 12  | 10  | 9   | 12  | 15  | 14  | 10           | 20  | 15  | 12  | 9   | 10 | 15 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
| 22  | 18          | 3          | 5                             | 6  | 8  | 7  | 6  | 7  | 14  | 10  | 9   | 12  | 17  | 14  | 10           | 23  | 18  | 15  | 12  | 16 | 11 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
| 24  | 22          | 4          | 5                             | 6  | 8  | 7  | 6  | 7  | 17  | 12  | 19  | 14  | 10  | 20  | 15           | 12  | 9   | 10  | 15  | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
| 26  | 27          | 5          | 6                             | 8  | 7  | 6  | 7  | 18 | 12  | 22  | 17  | 12  | 20  | 15  | 18           | 15  | 12  | 9   | 10  | 15 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
| 28  | 31          | 6          | 7                             | 8  | 9  | 7  | 6  | 7  | 25  | 16  | 20  | 15  | 28  | 23  | 18           | 12  | 18  | 15  | 12  | 9  | 10 | 15 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
| 30  | 36          | 8          | 9                             | 10 | 12 | 14 | 10 | 12 | 16  | 10  | 12  | 18  | 15  | 20  | 15           | 18  | 12  | 18  | 15  | 12 | 9  | 10 | 15 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
| 32  | 41          | 9          | 10                            | 12 | 14 | 15 | 12 | 14 | 17  | 12  | 19  | 14  | 10  | 21  | 17           | 19  | 15  | 17  | 13  | 10 | 16 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
| 34  | 47          | 10         | 12                            | 14 | 16 | 17 | 14 | 15 | 25  | 20  | 25  | 25  | 17  | 20  | 22           | 18  | 16  | 14  | 12  | 15 | 13 | 10 | 16 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
| 36  | 53          | 12         | 14                            | 16 | 18 | 17 | 15 | 16 | 26  | 20  | 25  | 25  | 17  | 20  | 22           | 18  | 16  | 14  | 12  | 15 | 13 | 10 | 16 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
| 38  | 60          | 13         | 15                            | 17 | 19 | 20 | 16 | 18 | 28  | 25  | 30  | 28  | 20  | 34  | 24           | 20  | 18  | 16  | 14  | 12 | 15 | 13 | 10 | 16 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |    |    |    |   |   |   |   |   |   |
| 40  | 67          | 15         | 17                            | 19 | 20 | 21 | 16 | 18 | 30  | 24  | 32  | 27  | 20  | 32  | 27           | 20  | 16  | 14  | 12  | 15 | 13 | 10 | 16 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
| 42  | 74          | 17         | 19                            | 20 | 22 | 23 | 17 | 19 | 35  | 27  | 39  | 31  | 23  | 38  | 32           | 27  | 22  | 15  | 13  | 11 | 10 | 16 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |
| 44  | 81          | 18         | 20                            | 22 | 24 | 25 | 18 | 20 | 37  | 31  | 40  | 35  | 25  | 41  | 37           | 31  | 27  | 19  | 17  | 15 | 13 | 11 | 10 | 16 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |    |    |    |   |   |   |   |   |   |
| 46  | 89          | 20         | 22                            | 24 | 26 | 28 | 20 | 22 | 42  | 35  | 45  | 40  | 30  | 47  | 40           | 35  | 30  | 22  | 19  | 17 | 15 | 13 | 11 | 10 | 16 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |    |    |   |   |   |   |   |   |
| 48  | 96          | 22         | 24                            | 26 | 28 | 30 | 22 | 24 | 50  | 42  | 52  | 47  | 35  | 57  | 50           | 45  | 37  | 27  | 20  | 18 | 16 | 14 | 12 | 10 | 16 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |    |    |   |   |   |   |   |   |
| 50  | 106         | 24         | 26                            | 28 | 30 | 32 | 24 | 26 | 52  | 44  | 58  | 50  | 38  | 60  | 52           | 45  | 38  | 27  | 20  | 18 | 16 | 14 | 12 | 10 | 16 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |    |    |   |   |   |   |   |   |
| 52  | 115         | 26         | 28                            | 30 | 32 | 34 | 26 | 28 | 55  | 46  | 60  | 53  | 48  | 62  | 55           | 48  | 41  | 30  | 23  | 17 | 15 | 13 | 11 | 10 | 16 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |    |    |   |   |   |   |   |   |
| 54  | 124         | 29         | 31                            | 33 | 35 | 37 | 29 | 31 | 58  | 50  | 62  | 55  | 50  | 64  | 57           | 50  | 43  | 33  | 26  | 19 | 17 | 15 | 13 | 11 | 10 | 16 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |    |   |   |   |   |   |   |
| 56  | 134         | 31         | 33                            | 35 | 37 | 39 | 31 | 33 | 62  | 52  | 66  | 59  | 54  | 68  | 61           | 54  | 46  | 36  | 29  | 22 | 19 | 17 | 15 | 13 | 11 | 10 | 16 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |    |   |   |   |   |   |   |
| 58  | 144         | 34         | 36                            | 38 | 40 | 42 | 34 | 36 | 66  | 56  | 70  | 61  | 56  | 74  | 65           | 58  | 50  | 41  | 34  | 27 | 20 | 19 | 17 | 15 | 13 | 11 | 10 | 16 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |   |   |   |   |   |   |
| 60  | 155         | 36         | 38                            | 40 | 42 | 44 | 36 | 38 | 70  | 61  | 74  | 66  | 61  | 78  | 67           | 60  | 52  | 43  | 35  | 28 | 21 | 19 | 17 | 15 | 13 | 11 | 10 | 16 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |   |   |   |   |   |   |
| 62  | 165         | 39         | 41                            | 43 | 45 | 47 | 39 | 41 | 74  | 65  | 78  | 68  | 63  | 80  | 71           | 64  | 55  | 46  | 38  | 31 | 24 | 19 | 17 | 15 | 13 | 11 | 10 | 16 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |    |   |   |   |   |   |   |
| 64  | 176         | 41         | 43                            | 45 | 47 | 49 | 41 | 43 | 78  | 66  | 82  | 71  | 66  | 84  | 72           | 65  | 56  | 47  | 39  | 32 | 25 | 20 | 19 | 17 | 15 | 13 | 11 | 10 | 16 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |   |   |   |   |   |   |
| 66  | 189         | 44         | 46                            | 48 | 50 | 52 | 44 | 46 | 82  | 71  | 86  | 75  | 70  | 90  | 79           | 72  | 63  | 54  | 45  | 38 | 31 | 24 | 19 | 17 | 15 | 13 | 11 | 10 | 16 | 14 | 10 | 7  | 10 | 15 | 11 |    |    |   |   |   |   |   |   |
| 68  | 200         | 47         | 49                            | 51 | 53 | 55 | 47 | 49 | 86  | 75  | 90  | 84  | 79  | 94  | 83           | 76  | 67  | 58  | 50  | 43 | 36 | 29 | 24 | 19 | 17 | 15 | 13 | 11 | 10 | 16 | 14 | 10 | 7  | 10 | 15 | 11 |    |   |   |   |   |   |   |
| 70  | 213         | 50         | 52                            | 54 | 56 | 58 | 50 | 52 | 90  | 81  | 94  | 85  | 79  | 101 | 90           | 83  | 74  | 65  | 56  | 49 | 42 | 35 | 28 | 23 | 19 | 17 | 15 | 13 | 11 | 10 | 16 | 14 | 10 | 7  | 10 | 15 | 11 |   |   |   |   |   |   |
| 72  | 225         | 53         | 55                            | 57 | 59 | 61 | 53 | 55 | 94  | 85  | 98  | 89  | 83  | 105 | 94           | 87  | 78  | 69  | 60  | 53 | 46 | 39 | 32 | 26 | 21 | 17 | 15 | 13 | 11 | 10 | 16 | 14 | 10 | 7  | 10 | 15 | 11 |   |   |   |   |   |   |
| 74  | 238         | 55         | 57                            | 59 | 61 | 63 | 55 | 57 | 98  | 89  | 102 | 93  | 87  | 110 | 99           | 92  | 83  | 74  | 65  | 58 | 51 | 44 | 37 | 31 | 25 | 20 | 16 | 14 | 12 | 10 | 8  | 6  | 5  | 3  | 1  | 0  | 0  | 0 |   |   |   |   |   |
| 76  | 252         | 59         | 61                            | 63 | 65 | 67 | 59 | 61 | 102 | 91  | 106 | 95  | 89  | 117 | 106          | 99  | 90  | 81  | 72  | 65 | 58 | 51 | 44 | 37 | 31 | 25 | 20 | 16 | 14 | 12 | 10 | 8  | 6  | 5  | 3  | 1  | 0  | 0 |   |   |   |   |   |
| 78  | 266         | 63         | 65                            | 67 | 69 | 71 | 63 | 65 | 106 | 95  | 110 | 104 | 98  | 122 | 111          | 105 | 96  | 87  | 78  | 71 | 64 | 57 | 50 | 43 | 36 | 29 | 24 | 19 | 17 | 15 | 13 | 11 | 10 | 8  | 6  | 5  | 3  | 1 | 0 | 0 |   |   |   |
| 80  | 279         | 67         | 69                            | 71 | 73 | 75 | 67 | 69 | 110 | 101 | 114 | 104 | 98  | 126 | 115          | 108 | 99  | 90  | 81  | 74 | 67 | 60 | 53 | 46 | 39 | 32 | 26 | 21 | 17 | 15 | 13 | 11 | 10 | 8  | 6  | 5  | 3  | 1 | 0 | 0 |   |   |   |
| 82  | 294         | 70         | 72                            | 74 | 76 | 78 | 70 | 72 | 114 | 105 | 117 | 105 | 99  | 130 | 119          | 112 | 103 | 94  | 85  | 78 | 71 | 64 | 57 | 50 | 43 | 36 | 29 | 24 | 19 | 17 | 15 | 13 | 11 | 10 | 8  | 6  | 5  | 3 | 1 | 0 | 0 |   |   |
| 84  | 308         | 74         | 76                            | 78 | 80 | 82 | 74 | 76 | 118 | 109 | 120 | 108 | 102 | 134 | 123          | 116 | 107 | 98  | 90  | 83 | 76 | 69 | 62 | 55 | 48 | 41 | 34 | 27 | 22 | 17 | 15 | 13 | 11 | 10 | 8  | 6  | 5  | 3 | 1 | 0 | 0 |   |   |
| 86  | 324         | 78         | 80                            | 82 | 84 | 86 | 78 | 80 | 122 | 113 | 124 | 111 | 105 | 140 | 129          | 122 | 113 | 104 | 95  | 88 | 81 | 74 | 67 | 60 | 53 | 46 | 39 | 32 | 26 | 21 | 17 | 15 | 13 | 11 | 10 | 8  | 6  | 5 | 3 | 1 | 0 | 0 |   |
| 88  | 339         | 81         | 83                            | 85 | 87 | 89 | 81 | 83 | 126 | 117 | 128 | 115 | 109 | 143 | 132          | 125 | 116 | 107 | 98  | 91 | 84 | 77 | 70 | 63 | 56 | 49 | 42 | 35 | 28 | 23 | 18 | 16 | 14 | 12 | 10 | 8  | 6  | 5 | 3 | 1 | 0 | 0 |   |
| 90  | 356         | 85         | 87                            | 89 | 91 | 93 | 85 | 87 | 130 | 121 | 132 | 119 | 113 | 147 | 136          | 129 | 120 | 111 | 102 | 95 | 88 | 81 | 74 | 67 | 60 | 53 | 46 | 39 | 32 | 26 | 21 | 17 | 15 | 13 | 11 | 10 | 8  | 6 | 5 | 3 | 1 | 0 | 0 |

| D.b.h.<br>Butt<br>log<br>inches | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     |     |     |
|---------------------------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                 |            | 9                             |     |     |     |     |     | 10  |     |     |     |     |     |
|                                 |            | 2                             | 3   | 4   | 5   | 6   | 7   | 2   | 3   | 4   | 5   | 6   | 7   |
| Log Position                    |            |                               |     |     |     |     |     |     |     |     |     |     |     |
| 28                              | 31         | 6                             | 28  | 26  | 25  | 20  | 17  | 14  | 10  | 9   | 8   | 7   | 6   |
| 30                              | 36         | 8                             | 33  | 30  | 28  | 23  | 20  | 16  | 12  | 10  | 9   | 8   | 7   |
| 32                              | 41         | 9                             | 36  | 35  | 32  | 27  | 23  | 18  | 13  | 10  | 9   | 8   | 7   |
| 34                              | 47         | 10                            | 43  | 39  | 36  | 31  | 26  | 21  | 16  | 13  | 10  | 9   | 8   |
| 36                              | 53         | 12                            | 49  | 45  | 41  | 35  | 29  | 24  | 18  | 13  | 10  | 9   | 8   |
| 38                              | 60         | 13                            | 55  | 51  | 46  | 39  | 33  | 27  | 20  | 15  | 12  | 10  | 9   |
| 40                              | 67         | 15                            | 61  | 56  | 51  | 44  | 37  | 30  | 22  | 17  | 13  | 10  | 9   |
| 42                              | 74         | 17                            | 68  | 62  | 56  | 48  | 41  | 37  | 27  | 22  | 17  | 13  | 10  |
| 44                              | 81         | 18                            | 75  | 69  | 62  | 53  | 46  | 37  | 27  | 22  | 17  | 13  | 10  |
| 46                              | 89         | 20                            | 83  | 75  | 69  | 59  | 50  | 44  | 30  | 22  | 17  | 13  | 10  |
| 48                              | 96         | 22                            | 90  | 82  | 75  | 64  | 55  | 45  | 33  | 22  | 17  | 13  | 10  |
| 50                              | 106        | 24                            | 98  | 89  | 76  | 60  | 49  | 36  | 22  | 17  | 13  | 10  | 9   |
| 52                              | 115        | 26                            | 106 | 97  | 89  | 76  | 65  | 53  | 39  | 22  | 17  | 13  | 10  |
| 54                              | 124        | 29                            | 114 | 105 | 96  | 82  | 70  | 57  | 43  | 22  | 17  | 13  | 10  |
| 56                              | 134        | 31                            | 123 | 113 | 103 | 88  | 75  | 61  | 49  | 22  | 17  | 13  | 10  |
| 58                              | 144        | 34                            | 133 | 122 | 112 | 96  | 81  | 66  | 49  | 22  | 17  | 13  | 10  |
| 60                              | 155        | 36                            | 142 | 130 | 119 | 102 | 88  | 72  | 54  | 22  | 17  | 13  | 10  |
| 62                              | 165        | 39                            | 152 | 139 | 127 | 110 | 94  | 77  | 58  | 22  | 17  | 13  | 10  |
| 64                              | 176        | 41                            | 162 | 149 | 135 | 117 | 101 | 83  | 62  | 22  | 17  | 13  | 10  |
| 66                              | 189        | 44                            | 173 | 159 | 145 | 125 | 106 | 88  | 66  | 22  | 17  | 13  | 10  |
| 68                              | 200        | 47                            | 185 | 169 | 154 | 135 | 114 | 94  | 70  | 22  | 17  | 13  | 10  |
| 70                              | 213        | 50                            | 195 | 179 | 164 | 144 | 121 | 99  | 75  | 199 | 183 | 167 | 152 |
| 72                              | 225        | 53                            | 207 | 190 | 173 | 158 | 139 | 119 | 95  | 211 | 193 | 177 | 152 |
| 74                              | 238        | 56                            | 219 | 201 | 185 | 167 | 144 | 111 | 83  | 223 | 205 | 187 | 150 |
| 76                              | 252        | 60                            | 232 | 213 | 194 | 167 | 144 | 116 | 88  | 236 | 217 | 198 | 150 |
| 78                              | 266        | 63                            | 244 | 225 | 204 | 176 | 152 | 124 | 93  | 249 | 225 | 209 | 151 |
| 80                              | 279        | 67                            | 257 | 236 | 215 | 186 | 160 | 131 | 98  | 262 | 240 | 220 | 177 |
| 82                              | 294        | 70                            | 271 | 249 | 226 | 195 | 168 | 137 | 103 | 270 | 253 | 231 | 186 |
| 84                              | 308        | 74                            | 284 | 261 | 237 | 205 | 178 | 144 | 108 | 289 | 265 | 243 | 192 |
| 86                              | 321        | 78                            | 299 | 274 | 250 | 216 | 166 | 131 | 104 | 304 | 279 | 255 | 197 |
| 88                              | 339        | 81                            | 311 | 285 | 260 | 225 | 193 | 156 | 118 | 316 | 280 | 242 | 206 |
| 90                              | 356        | 85                            | 328 | 301 | 274 | 236 | 203 | 166 | 125 | 333 | 306 | 260 | 225 |
|                                 |            |                               |     |     |     |     |     |     |     | 191 | 156 | 119 | 90  |
|                                 |            |                               |     |     |     |     |     |     |     | 344 | 314 | 287 | 208 |
|                                 |            |                               |     |     |     |     |     |     |     |     | 34  | 31  | 20  |

| D.b.h.<br>inches                                | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     |     |     | Log position |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|   |             |            | 3                             |     |     |     | 4   |     |     |     | 5   |     |     |     | 6            |     |     |     | 7   |     |     |     | 8   |     |     |     |     |     |     |     |     |     |
|   |             |            | 2                             | 2   | 3   | 2   | 3   | 2   | 3   | 4   | 2   | 3   | 4   | 5   | 2            | 3   | 4   | 5   | 2   | 3   | 4   | 5   | 2   | 3   | 4   | 5   |     |     |     |     |     |     |
| Gross Scribner Decimal C volume of 10-foot logs |             |            |                               |     |     |     |     |     |     |     |     |     |     |     |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 12  | 4           | 3          | 4                             | 5   | 6   | 4   | 5   | 6   | 7   | 8   | 6   | 5   | 6   | 7   | 13           | 11  | 9   | 6   | 10  | 14  | 18  | 10  | 15  | 13  | 15  | 9   | 11  |     |     |     |     |     |
| 14  | 7           | 3          | 5                             | 6   | 8   | 5   | 7   | 8   | 10  | 12  | 15  | 12  | 10  | 14  | 10           | 14  | 11  | 10  | 7   | 16  | 17  | 22  | 19  | 23  | 19  | 15  | 13  |     |     |     |     |     |
| 16  | 9           | 3          | 5                             | 7   | 8   | 6   | 9   | 8   | 10  | 12  | 15  | 10  | 15  | 10  | 17           | 12  | 9   | 10  | 15  | 14  | 15  | 26  | 22  | 26  | 20  | 15  | 13  |     |     |     |     |     |
| 18  | 12          | 3          | 10                            | 11  | 12  | 8   | 9   | 11  | 13  | 10  | 15  | 12  | 10  | 14  | 10           | 15  | 10  | 15  | 10  | 14  | 15  | 16  | 17  | 18  | 19  | 15  | 11  |     |     |     |     |     |
| 20  | 15          | 3          | 11                            | 14  | 18  | 9   | 11  | 18  | 15  | 12  | 19  | 15  | 10  | 17  | 12           | 9   | 10  | 15  | 14  | 15  | 16  | 17  | 18  | 19  | 17  | 15  | 13  |     |     |     |     |     |
| 22  | 19          | 4          | 11                            | 14  | 18  | 9   | 11  | 18  | 15  | 12  | 19  | 15  | 10  | 17  | 12           | 9   | 10  | 15  | 14  | 15  | 16  | 17  | 18  | 19  | 17  | 15  | 13  |     |     |     |     |     |
| 24  | 23          | 5          | 11                            | 14  | 17  | 11  | 14  | 17  | 21  | 14  | 22  | 17  | 12  | 21  | 14           | 18  | 13  | 25  | 21  | 18  | 14  | 15  | 16  | 17  | 18  | 16  | 14  |     |     |     |     |     |
| 26  | 27          | 6          | 17                            | 21  | 14  | 17  | 25  | 17  | 21  | 14  | 27  | 21  | 18  | 13  | 23           | 18  | 15  | 29  | 25  | 21  | 17  | 11  | 25  | 26  | 20  | 17  | 15  |     |     |     |     |     |
| 28  | 32          | 7          | 17                            | 25  | 17  | 25  | 17  | 25  | 21  | 14  | 28  | 23  | 18  | 13  | 23           | 18  | 15  | 29  | 25  | 21  | 17  | 11  | 25  | 26  | 20  | 17  | 15  |     |     |     |     |     |
| 30  | 37          | 8          | 29                            | 19  | 31  | 24  | 17  | 33  | 27  | 21  | 15  | 34  | 29  | 24  | 19           | 13  | 10  | 14  | 21  | 18  | 14  | 15  | 25  | 22  | 18  | 16  | 13  |     |     |     |     |     |
| 32  | 42          | 9          | 33                            | 23  | 36  | 28  | 19  | 37  | 32  | 24  | 17  | 38  | 33  | 28  | 22           | 16  | 13  | 10  | 14  | 34  | 30  | 25  | 20  | 15  | 13  | 11  | 9   | 7   |     |     |     |     |
| 34  | 49          | 11         | 38                            | 25  | 40  | 32  | 22  | 42  | 36  | 27  | 20  | 44  | 38  | 32  | 25           | 17  | 14  | 11  | 15  | 34  | 30  | 25  | 20  | 15  | 13  | 11  | 9   | 7   |     |     |     |     |
| 36  | 55          | 12         | 42                            | 29  | 46  | 36  | 25  | 48  | 42  | 31  | 22  | 49  | 43  | 36  | 29           | 20  | 17  | 14  | 11  | 15  | 34  | 30  | 25  | 20  | 15  | 13  | 11  | 9   | 7   |     |     |     |
| 38  | 62          | 14         | 48                            | 32  | 52  | 40  | 28  | 54  | 46  | 35  | 24  | 55  | 48  | 40  | 33           | 23  | 19  | 16  | 13  | 15  | 34  | 30  | 25  | 20  | 15  | 13  | 11  | 9   | 7   |     |     |     |
| 40  | 68          | 15         | 54                            | 37  | 63  | 50  | 35  | 66  | 57  | 43  | 31  | 68  | 59  | 50  | 40           | 35  | 31  | 28  | 26  | 21  | 19  | 16  | 13  | 11  | 9   | 7   | 5   | 3   |     |     |     |     |
| 42  | 76          | 17         | 70                            | 55  | 77  | 60  | 52  | 80  | 68  | 52  | 38  | 83  | 72  | 60  | 48           | 34  | 31  | 28  | 26  | 21  | 19  | 16  | 13  | 11  | 9   | 7   | 5   | 3   |     |     |     |     |
| 44  | 84          | 19         | 77                            | 60  | 122 | 80  | 62  | 127 | 102 | 79  | 57  | 123 | 107 | 90  | 73           | 52  | 125 | 112 | 98  | 83  | 60  | 56  | 44  | 33  | 27  | 25  | 20  | 14  |     |     |     |     |
| 46  | 92          | 21         | 77                            | 60  | 127 | 80  | 62  | 127 | 102 | 79  | 57  | 123 | 107 | 90  | 73           | 52  | 125 | 112 | 98  | 83  | 60  | 56  | 44  | 33  | 27  | 25  | 20  | 14  |     |     |     |     |
| 48  | 100         | 23         | 85                            | 66  | 147 | 88  | 75  | 98  | 85  | 71  | 62  | 134 | 117 | 98  | 80           | 57  | 137 | 123 | 107 | 90  | 72  | 61  | 57  | 44  | 33  | 27  | 25  | 20  | 14  |     |     |     |
| 50  | 109         | 25         | 92                            | 72  | 51  | 96  | 81  | 63  | 45  | 98  | 86  | 72  | 58  | 42  | 100          | 89  | 78  | 66  | 53  | 60  | 130 | 113 | 98  | 78  | 64  | 53  | 44  | 33  | 27  | 25  |     |     |
| 52  | 118         | 27         | 100                           | 78  | 55  | 104 | 88  | 68  | 49  | 106 | 93  | 78  | 63  | 45  | 109          | 97  | 84  | 72  | 57  | 63  | 139 | 121 | 103 | 83  | 64  | 53  | 44  | 33  | 27  | 25  |     |     |
| 54  | 128         | 30         | 108                           | 84  | 60  | 112 | 95  | 74  | 54  | 115 | 101 | 85  | 68  | 49  | 118          | 105 | 92  | 78  | 62  | 63  | 149 | 129 | 112 | 89  | 68  | 57  | 46  | 35  | 29  | 25  | 20  |     |
| 56  | 137         | 32         | 115                           | 63  | 65  | 119 | 101 | 90  | 79  | 123 | 107 | 90  | 73  | 52  | 117          | 105 | 92  | 78  | 62  | 63  | 151 | 139 | 120 | 91  | 69  | 58  | 47  | 36  | 30  | 25  | 20  |     |
| 58  | 146         | 35         | 126                           | 98  | 69  | 131 | 111 | 86  | 62  | 134 | 117 | 98  | 80  | 57  | 137          | 123 | 107 | 90  | 72  | 61  | 168 | 147 | 127 | 105 | 72  | 54  | 43  | 32  | 26  | 20  | 14  |     |
| 60  | 159         | 37         | 135                           | 105 | 74  | 139 | 119 | 92  | 67  | 146 | 127 | 92  | 74  | 57  | 147          | 125 | 118 | 84  | 201 | 179 | 156 | 135 | 107 | 81  | 59  | 48  | 37  | 26  | 20  | 14  |     |     |
| 62  | 170         | 40         | 204                           | 173 | 134 | 127 | 103 | 103 | 105 | 116 | 114 | 121 | 97  | 70  | 153          | 134 | 113 | 91  | 65  | 156 | 139 | 121 | 103 | 83  | 64  | 53  | 42  | 31  | 25  | 20  | 14  |     |
| 64  | 182         | 42         | 216                           | 184 | 112 | 120 | 103 | 109 | 115 | 115 | 112 | 116 | 97  | 70  | 153          | 134 | 113 | 91  | 65  | 156 | 139 | 121 | 103 | 83  | 64  | 53  | 42  | 31  | 25  | 20  | 14  |     |
| 66  | 193         | 46         | 228                           | 194 | 150 | 150 | 109 | 109 | 115 | 115 | 112 | 116 | 97  | 70  | 153          | 134 | 113 | 91  | 65  | 156 | 139 | 121 | 103 | 83  | 64  | 53  | 42  | 31  | 25  | 20  | 14  |     |
| 68  | 205         | 49         | 241                           | 205 | 159 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115          | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 |
| 70  | 218         | 51         | 192                           | 164 | 127 | 92  | 197 | 173 | 145 | 118 | 84  | 201 | 183 | 153 | 124          | 89  | 212 | 190 | 165 | 142 | 113 | 103 | 83  | 64  | 53  | 42  | 31  | 25  | 20  | 14  |     |     |
| 72  | 231         | 55         | 204                           | 173 | 134 | 127 | 103 | 103 | 105 | 116 | 114 | 121 | 97  | 70  | 153          | 134 | 113 | 91  | 65  | 156 | 139 | 121 | 103 | 83  | 64  | 53  | 42  | 31  | 25  | 20  | 14  |     |
| 74  | 245         | 58         | 216                           | 184 | 112 | 120 | 103 | 109 | 115 | 115 | 112 | 116 | 97  | 70  | 153          | 134 | 113 | 91  | 65  | 156 | 139 | 121 | 103 | 83  | 64  | 53  | 42  | 31  | 25  | 20  | 14  |     |
| 76  | 258         | 61         | 228                           | 194 | 150 | 150 | 109 | 109 | 115 | 115 | 112 | 116 | 97  | 70  | 153          | 134 | 113 | 91  | 65  | 156 | 139 | 121 | 103 | 83  | 64  | 53  | 42  | 31  | 25  | 20  | 14  |     |
| 78  | 273         | 64         | 241                           | 205 | 159 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115          | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 |
| 80  | 287         | 68         | 253                           | 216 | 167 | 121 | 272 | 238 | 201 | 164 | 117 | 278 | 248 | 212 | 190          | 165 | 142 | 113 | 103 | 83  | 64  | 53  | 42  | 31  | 25  | 20  | 14  | 107 | 112 | 107 | 107 |     |
| 82  | 302         | 71         | 266                           | 227 | 175 | 127 | 276 | 239 | 212 | 185 | 134 | 286 | 250 | 212 | 193          | 167 | 142 | 113 | 103 | 83  | 64  | 53  | 42  | 31  | 25  | 20  | 14  | 107 | 112 | 107 | 107 |     |
| 84  | 317         | 75         | 280                           | 239 | 185 | 134 | 276 | 239 | 212 | 185 | 134 | 293 | 261 | 227 | 201          | 175 | 151 | 120 | 91  | 68  | 53  | 42  | 31  | 25  | 20  | 14  | 107 | 112 | 107 | 107 |     |     |
| 86  | 333         | 79         | 294                           | 250 | 193 | 140 | 300 | 262 | 221 | 181 | 130 | 306 | 281 | 221 | 190          | 167 | 142 | 113 | 103 | 83  | 64  | 53  | 42  | 31  | 25  | 20  | 14  | 107 | 112 | 107 | 107 |     |
| 88  | 349         | 83         | 309                           | 263 | 203 | 147 | 315 | 275 | 233 | 190 | 137 | 322 | 288 | 230 | 205          | 172 | 151 | 120 | 91  | 68  | 53  | 42  | 31  | 25  | 20  | 14  | 107 | 112 | 107 | 107 |     |     |
| 90  | 365         | 87         | 323                           | 275 | 212 | 154 | 329 | 288 | 243 | 199 | 143 | 337 | 301 | 261 | 225          | 180 | 156 | 134 | 108 | 83  | 64  | 53  | 42  | 31  | 25  | 20  | 14  | 107 | 112 | 107 | 107 |     |

| D.b.h.<br>Inches                                | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     |     |     | Tree height in number of logs |     |     |     |     |     |     |     |     |     |     |     |
|---|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|   |             |            | 9                             |     |     |     |     |     | 10  |     |     |     |     |     | 11                            |     |     |     |     |     | 11  |     |     |     |     |     |
|   |             |            | 2                             | 3   | 4   | 5   | 6   | 7   | 8   | 2   | 3   | 4   | 5   | 6   | 7                             | 8   | 9   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |
| Gross Scribner Decimal C volume of 16-foot logs |             |            |                               |     |     |     |     |     |     |     |     |     |     |     |                               |     |     |     |     |     |     |     |     |     |     |     |
| 26  | 27          | 6          | 25                            | 23  | 21  | 17  | 15  | 12  | 9   | 25  | 27  | 21  | 18  | 14  | 10                            | 9   | 11  | 104 | 95  | 88  | 88  | 78  | 69  | 59  | 49  | 38  |
| 28  | 32          | 7          | 34                            | 31  | 29  | 24  | 20  | 17  | 12  | 39  | 36  | 33  | 28  | 23  | 19                            | 14  | 11  | 111 | 104 | 96  | 84  | 74  | 65  | 54  | 44  | 34  |
| 30  | 37          | 8          | 42                            | 39  | 36  | 34  | 31  | 27  | 21  | 44  | 41  | 37  | 32  | 27  | 21                            | 16  | 11  | 113 | 103 | 96  | 90  | 79  | 69  | 57  | 47  | 37  |
| 32  | 42          | 9          | 51                            | 44  | 41  | 37  | 35  | 30  | 24  | 50  | 46  | 42  | 36  | 31  | 24                            | 18  | 11  | 128 | 120 | 109 | 102 | 90  | 79  | 65  | 55  | 45  |
| 34  | 49          | 11         | 55                            | 44  | 41  | 37  | 35  | 30  | 24  | 52  | 47  | 42  | 37  | 31  | 24                            | 18  | 11  | 140 | 131 | 120 | 112 | 99  | 88  | 75  | 62  | 52  |
| 36  | 55          | 12         | 56                            | 46  | 41  | 37  | 35  | 30  | 24  | 53  | 48  | 43  | 38  | 32  | 25                            | 18  | 11  | 147 | 135 | 127 | 113 | 99  | 88  | 75  | 62  | 52  |
| 38  | 62          | 14         | 57                            | 52  | 47  | 42  | 37  | 30  | 24  | 55  | 50  | 45  | 40  | 35  | 28                            | 21  | 14  | 147 | 135 | 127 | 113 | 99  | 88  | 75  | 62  | 52  |
| 40  | 69          | 15         | 63                            | 58  | 53  | 45  | 38  | 31  | 23  | 58  | 52  | 47  | 42  | 36  | 31                            | 24  | 18  | 147 | 135 | 127 | 113 | 99  | 88  | 75  | 62  | 52  |
| 42  | 76          | 17         | 70                            | 64  | 58  | 50  | 42  | 34  | 25  | 64  | 59  | 53  | 47  | 41  | 34                            | 28  | 21  | 147 | 135 | 127 | 113 | 99  | 88  | 75  | 62  | 52  |
| 44  | 84          | 19         | 77                            | 70  | 64  | 58  | 50  | 42  | 34  | 65  | 77  | 70  | 60  | 51  | 42                            | 34  | 28  | 147 | 135 | 127 | 113 | 99  | 88  | 75  | 62  | 52  |
| 46  | 92          | 21         | 85                            | 77  | 70  | 64  | 58  | 50  | 42  | 66  | 77  | 70  | 60  | 51  | 42                            | 34  | 28  | 147 | 135 | 127 | 113 | 99  | 88  | 75  | 62  | 52  |
| 48  | 100         | 23         | 92                            | 85  | 77  | 70  | 64  | 58  | 50  | 67  | 77  | 70  | 60  | 51  | 42                            | 34  | 28  | 147 | 135 | 127 | 113 | 99  | 88  | 75  | 62  | 52  |
| 50  | 109         | 25         | 101                           | 92  | 84  | 72  | 61  | 50  | 37  | 102 | 94  | 85  | 78  | 68  | 58                            | 48  | 38  | 147 | 135 | 127 | 113 | 99  | 88  | 75  | 62  | 52  |
| 52  | 118         | 27         | 109                           | 100 | 91  | 78  | 66  | 54  | 40  | 111 | 101 | 92  | 84  | 74  | 63                            | 51  | 43  | 147 | 135 | 127 | 113 | 99  | 88  | 75  | 62  | 52  |
| 54  | 128         | 30         | 118                           | 108 | 99  | 85  | 72  | 59  | 43  | 120 | 110 | 101 | 91  | 80  | 68                            | 55  | 45  | 147 | 135 | 127 | 113 | 99  | 88  | 75  | 62  | 52  |
| 56  | 137         | 32         | 126                           | 115 | 105 | 90  | 77  | 62  | 46  | 127 | 117 | 107 | 97  | 85  | 73                            | 63  | 53  | 147 | 135 | 127 | 113 | 99  | 88  | 75  | 62  | 52  |
| 58  | 148         | 35         | 137                           | 126 | 115 | 98  | 84  | 68  | 51  | 140 | 127 | 117 | 106 | 93  | 79                            | 64  | 54  | 147 | 135 | 127 | 113 | 99  | 88  | 75  | 62  | 52  |
| 60  | 159         | 37         | 146                           | 134 | 122 | 105 | 91  | 74  | 55  | 149 | 136 | 125 | 114 | 99  | 85                            | 69  | 53  | 147 | 135 | 127 | 113 | 99  | 88  | 75  | 62  | 52  |
| 62  | 170         | 40         | 156                           | 143 | 130 | 112 | 97  | 79  | 59  | 159 | 146 | 135 | 124 | 107 | 91                            | 74  | 56  | 147 | 135 | 127 | 113 | 99  | 88  | 75  | 62  | 52  |
| 64  | 182         | 42         | 167                           | 153 | 140 | 120 | 104 | 85  | 63  | 171 | 156 | 143 | 132 | 114 | 97                            | 79  | 60  | 147 | 135 | 127 | 113 | 99  | 88  | 75  | 62  | 52  |
| 66  | 193         | 46         | 178                           | 163 | 148 | 128 | 110 | 90  | 68  | 181 | 166 | 152 | 138 | 122 | 104                           | 84  | 64  | 147 | 135 | 127 | 113 | 99  | 88  | 75  | 62  | 52  |
| 68  | 205         | 49         | 190                           | 174 | 158 | 137 | 118 | 96  | 72  | 193 | 177 | 162 | 147 | 130 | 110                           | 90  | 69  | 147 | 135 | 127 | 113 | 99  | 88  | 75  | 62  | 52  |
| 70  | 218         | 51         | 201                           | 184 | 168 | 145 | 125 | 102 | 76  | 205 | 188 | 171 | 156 | 138 | 117                           | 95  | 73  | 205 | 193 | 176 | 154 | 132 | 111 | 93  | 71  | 51  |
| 72  | 231         | 55         | 212                           | 195 | 178 | 153 | 132 | 108 | 81  | 217 | 198 | 181 | 165 | 146 | 124                           | 101 | 77  | 217 | 204 | 186 | 174 | 153 | 132 | 98  | 75  | 51  |
| 74  | 245         | 58         | 225                           | 207 | 188 | 163 | 140 | 114 | 86  | 230 | 210 | 192 | 175 | 156 | 132                           | 107 | 82  | 230 | 216 | 197 | 184 | 163 | 142 | 104 | 80  | 51  |
| 76  | 258         | 61         | 238                           | 218 | 199 | 172 | 147 | 120 | 91  | 242 | 222 | 203 | 186 | 163 | 143                           | 113 | 86  | 242 | 228 | 208 | 194 | 172 | 151 | 132 | 110 | 84  |
| 78  | 273         | 64         | 251                           | 231 | 210 | 182 | 156 | 127 | 96  | 256 | 235 | 215 | 195 | 171 | 151                           | 120 | 92  | 257 | 241 | 220 | 205 | 186 | 160 | 139 | 116 | 89  |
| 80  | 287         | 68         | 264                           | 243 | 221 | 191 | 164 | 134 | 101 | 269 | 247 | 226 | 206 | 181 | 154                           | 126 | 96  | 270 | 253 | 232 | 216 | 191 | 168 | 147 | 123 | 93  |
| 82  | 302         | 71         | 278                           | 255 | 232 | 201 | 172 | 141 | 106 | 263 | 259 | 237 | 216 | 191 | 162                           | 132 | 101 | 284 | 266 | 243 | 227 | 201 | 177 | 154 | 128 | 98  |
| 84  | 317         | 75         | 293                           | 269 | 245 | 211 | 181 | 148 | 112 | 298 | 273 | 250 | 227 | 201 | 171                           | 139 | 107 | 290 | 265 | 249 | 230 | 201 | 177 | 154 | 128 | 104 |
| 86  | 333         | 79         | 307                           | 281 | 256 | 221 | 190 | 160 | 118 | 312 | 286 | 262 | 238 | 210 | 179                           | 146 | 112 | 313 | 293 | 268 | 242 | 205 | 179 | 154 | 128 | 104 |
| 88  | 349         | 83         | 322                           | 296 | 269 | 232 | 200 | 163 | 123 | 328 | 301 | 275 | 250 | 221 | 188                           | 153 | 117 | 329 | 308 | 282 | 253 | 205 | 178 | 154 | 128 | 104 |
| 90  | 365         | 87         | 337                           | 310 | 281 | 243 | 209 | 171 | 128 | 343 | 314 | 288 | 262 | 230 | 197                           | 160 | 123 | 344 | 322 | 295 | 275 | 214 | 186 | 156 | 128 | 104 |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     |     |     | 8   |     |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                  |             |            | 3                             |     |     |     | 4   |     |     |     | 5   |     |     |     |     |     |
|                  |             |            | 2                             | 2   | 3   | 2   | 3   | 2   | 3   | 4   | 2   | 3   | 4   | 5   |     |     |
| Log position     |             |            |                               |     |     |     |     |     |     |     |     |     |     |     |     |     |
|                  |             |            |                               |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 12               | 5           | 3          | 4                             | 6   | 8   | 10  | 12  | 13  | 15  | 16  | 18  | 20  | 22  | 24  | 26  |     |
| 14               | 7           | 3          | 5                             | 8   | 10  | 12  | 15  | 18  | 20  | 22  | 24  | 26  | 28  | 30  | 33  | 36  |
| 16               | 9           | 3          | 7                             | 10  | 12  | 15  | 18  | 22  | 25  | 27  | 30  | 33  | 36  | 38  | 40  | 42  |
| 18               | 12          | 3          | 10                            | 12  | 15  | 18  | 22  | 25  | 17  | 21  | 25  | 29  | 24  | 27  | 30  | 33  |
| 20               | 16          | 3          | 13                            | 15  | 18  | 20  | 23  | 18  | 15  | 10  | 12  | 15  | 17  | 21  | 23  | 26  |
| 22               | 19          | 4          | 14                            | 15  | 18  | 20  | 23  | 18  | 15  | 10  | 12  | 15  | 17  | 21  | 23  | 26  |
| 24               | 21          | 4          | 15                            | 18  | 20  | 23  | 26  | 18  | 15  | 10  | 12  | 15  | 17  | 21  | 23  | 26  |
| 26               | 28          | 6          | 18                            | 22  | 24  | 25  | 17  | 21  | 15  | 25  | 29  | 26  | 28  | 30  | 33  | 36  |
| 28               | 33          | 7          | 25                            | 17  | 21  | 27  | 21  | 15  | 29  | 24  | 18  | 13  | 15  | 17  | 21  | 23  |
| 30               | 38          | 8          | 30                            | 20  | 25  | 22  | 17  | 24  | 28  | 22  | 15  | 14  | 16  | 18  | 20  | 22  |
| 32               | 44          | 10         | 34                            | 25  | 37  | 28  | 20  | 38  | 32  | 25  | 18  | 14  | 16  | 18  | 20  | 22  |
| 34               | 50          | 11         | 39                            | 26  | 42  | 32  | 23  | 44  | 37  | 28  | 20  | 18  | 20  | 22  | 24  | 26  |
| 36               | 57          | 12         | 44                            | 30  | 47  | 36  | 26  | 49  | 42  | 32  | 23  | 20  | 22  | 24  | 26  | 28  |
| 38               | 63          | 14         | 50                            | 33  | 53  | 41  | 29  | 55  | 47  | 35  | 26  | 23  | 25  | 27  | 29  | 30  |
| 40               | 70          | 16         | 55                            | 37  | 60  | 46  | 32  | 62  | 52  | 40  | 29  | 64  | 55  | 46  | 37  | 26  |
| 42               | 78          | 18         | 66                            | 51  | 76  | 68  | 56  | 75  | 64  | 54  | 45  | 32  | 46  | 37  | 26  | 20  |
| 44               | 86          | 19         | 72                            | 56  | 80  | 70  | 62  | 83  | 70  | 54  | 49  | 36  | 50  | 45  | 36  | 28  |
| 46               | 95          | 21         | 79                            | 62  | 84  | 70  | 68  | 80  | 70  | 59  | 43  | 39  | 52  | 47  | 36  | 31  |
| 48               | 103         | 23         | 86                            | 68  | 88  | 76  | 68  | 90  | 70  | 59  | 43  | 39  | 52  | 47  | 36  | 34  |
| 50               | 112         | 26         | 94                            | 74  | 52  | 99  | 83  | 65  | 66  | 101 | 88  | 74  | 60  | 42  | 37  | 26  |
| 52               | 122         | 28         | 103                           | 80  | 57  | 107 | 91  | 70  | 51  | 110 | 98  | 80  | 65  | 46  | 37  | 26  |
| 54               | 131         | 31         | 111                           | 86  | 61  | 115 | 98  | 75  | 55  | 119 | 103 | 87  | 70  | 49  | 37  | 26  |
| 56               | 141         | 33         | 120                           | 93  | 66  | 124 | 106 | 81  | 59  | 127 | 111 | 94  | 76  | 54  | 37  | 26  |
| 58               | 152         | 36         | 129                           | 100 | 71  | 133 | 114 | 87  | 64  | 137 | 120 | 101 | 81  | 58  | 37  | 26  |
| 60               | 163         | 38         | 139                           | 108 | 76  | 144 | 122 | 94  | 69  | 147 | 129 | 108 | 88  | 63  | 54  | 37  |
| 62               | 175         | 41         | 154                           | 131 | 101 | 179 | 151 | 104 | 74  | 158 | 138 | 116 | 94  | 67  | 54  | 37  |
| 64               | 186         | 44         | 164                           | 140 | 108 | 188 | 160 | 108 | 78  | 168 | 147 | 124 | 100 | 72  | 54  | 37  |
| 66               | 198         | 47         | 175                           | 149 | 115 | 185 | 167 | 115 | 84  | 180 | 157 | 132 | 107 | 71  | 54  | 37  |
| 68               | 210         | 50         | 186                           | 158 | 122 | 190 | 162 | 122 | 89  | 191 | 167 | 140 | 113 | 81  | 58  | 37  |
| 70               | 224         | 53         | 198                           | 168 | 130 | 94  | 203 | 177 | 149 | 121 | 86  | 63  | 54  | 37  | 26  | 20  |
| 72               | 237         | 56         | 210                           | 179 | 138 | 100 | 215 | 188 | 158 | 129 | 92  | 67  | 54  | 37  | 26  | 20  |
| 74               | 251         | 59         | 222                           | 188 | 146 | 200 | 154 | 112 | 239 | 209 | 177 | 144 | 104 | 258 | 231 | 207 |
| 76               | 265         | 63         | 234                           | 200 | 154 | 210 | 162 | 116 | 252 | 220 | 186 | 152 | 109 | 230 | 218 | 190 |
| 78               | 279         | 66         | 247                           | 210 | 162 | 210 | 162 | 116 | 252 | 220 | 186 | 152 | 109 | 230 | 218 | 190 |
| 80               | 295         | 70         | 260                           | 222 | 171 | 124 | 266 | 232 | 196 | 160 | 115 | 272 | 213 | 181 | 145 | 110 |
| 82               | 309         | 75         | 273                           | 233 | 182 | 131 | 280 | 214 | 197 | 169 | 121 | 286 | 250 | 221 | 191 | 153 |
| 84               | 325         | 78         | 286                           | 245 | 190 | 137 | 293 | 257 | 217 | 177 | 127 | 300 | 268 | 233 | 201 | 160 |
| 86               | 341         | 82         | 300                           | 256 | 199 | 144 | 308 | 270 | 228 | 188 | 133 | 315 | 282 | 244 | 190 | 164 |
| 88               | 357         | 86         | 315                           | 269 | 209 | 151 | 323 | 282 | 238 | 195 | 139 | 330 | 295 | 256 | 221 | 168 |
| 90               | 374         | 90         | 330                           | 282 | 220 | 158 | 339 | 296 | 250 | 204 | 146 | 346 | 309 | 268 | 231 | 185 |

| D.b.h.<br>inches | Butt<br>Top<br>log<br>10 <sup>6</sup> | Tree height in number of logs |     |     |     |     |     |     |     |     |     | Log position |     |     |     |     |     |     |     |     |     | Gross Scribner Decimal C volume of 16-foot logs |     |     |     |     |     |    |    |    |    |    |
|------------------|---------------------------------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|----|----|----|----|----|
|                  |                                       | 9                             |     |     |     |     | 10  |     |     |     |     | 11           |     |     |     |     | 12  |     |     |     |     | 13  |     |     |     |     |     |    |    |    |    |    |
|                  |                                       | 2                             | 3   | 4   | 5   | 6   | 7   | 8   | 2   | 3   | 4   | 5            | 6   | 7   | 8   | 9   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |     |     |    |    |    |    |    |
| 26               | 28                                    | 6                             | 26  | 24  | 21  | 18  | 15  | 12  | 9   | 11  | 14  | 11           | 10  | 11  | 10  | 11  | 14  | 11  | 10  | 11  | 10  | 11  | 10  | 11  | 10  | 11  | 10  |    |    |    |    |    |
| 28               | 33                                    | 7                             | 30  | 27  | 25  | 21  | 18  | 15  | 12  | 9   | 11  | 14           | 11  | 10  | 11  | 10  | 11  | 14  | 11  | 10  | 11  | 10  | 11  | 10  | 11  | 10  | 11  | 10 |    |    |    |    |
| 30               | 38                                    | 8                             | 35  | 32  | 29  | 25  | 21  | 17  | 13  | 15  | 17  | 14           | 12  | 15  | 13  | 12  | 15  | 14  | 12  | 13  | 11  | 14  | 12  | 13  | 11  | 14  | 12  | 13 | 11 |    |    |    |
| 32               | 44                                    | 10                            | 40  | 37  | 33  | 29  | 24  | 19  | 15  | 17  | 14  | 12           | 15  | 13  | 12  | 15  | 14  | 12  | 13  | 11  | 14  | 12  | 13  | 11  | 14  | 12  | 13  | 11 | 14 | 12 |    |    |
| 34               | 50                                    | 11                            | 45  | 42  | 38  | 32  | 28  | 22  | 17  | 15  | 17  | 14           | 12  | 15  | 13  | 12  | 15  | 14  | 12  | 13  | 11  | 14  | 12  | 13  | 11  | 14  | 12  | 13 | 11 | 14 | 12 |    |
| 36               | 57                                    | 12                            | 52  | 48  | 43  | 37  | 31  | 25  | 19  | 15  | 17  | 14           | 12  | 15  | 13  | 12  | 15  | 14  | 12  | 13  | 11  | 14  | 12  | 13  | 11  | 14  | 12  | 13 | 11 | 14 | 12 |    |
| 38               | 63                                    | 14                            | 58  | 53  | 48  | 41  | 35  | 29  | 21  | 17  | 15  | 14           | 12  | 15  | 13  | 12  | 15  | 14  | 12  | 13  | 11  | 14  | 12  | 13  | 11  | 14  | 12  | 13 | 11 | 14 | 12 |    |
| 40               | 70                                    | 16                            | 65  | 59  | 54  | 46  | 39  | 32  | 24  | 21  | 17  | 14           | 12  | 15  | 13  | 12  | 15  | 14  | 12  | 13  | 11  | 14  | 12  | 13  | 11  | 14  | 12  | 13 | 11 | 14 | 12 |    |
| 42               | 78                                    | 18                            | 72  | 66  | 60  | 51  | 46  | 39  | 26  | 21  | 17  | 14           | 12  | 15  | 13  | 12  | 15  | 14  | 12  | 13  | 11  | 14  | 12  | 13  | 11  | 14  | 12  | 13 | 11 | 14 | 12 |    |
| 44               | 86                                    | 19                            | 79  | 72  | 66  | 57  | 50  | 42  | 33  | 29  | 26  | 21           | 17  | 14  | 12  | 15  | 13  | 12  | 15  | 14  | 12  | 13  | 11  | 14  | 12  | 13  | 11  | 14 | 12 | 13 | 11 |    |
| 46               | 95                                    | 21                            | 87  | 79  | 72  | 62  | 53  | 45  | 32  | 29  | 26  | 21           | 17  | 14  | 12  | 15  | 13  | 12  | 15  | 14  | 12  | 13  | 11  | 14  | 12  | 13  | 11  | 14 | 12 | 13 | 11 |    |
| 48               | 103                                   | 23                            | 94  | 87  | 79  | 72  | 65  | 58  | 47  | 35  | 32  | 29           | 26  | 21  | 17  | 14  | 12  | 15  | 13  | 12  | 15  | 14  | 12  | 13  | 11  | 14  | 12  | 13 | 11 | 14 | 12 |    |
| 50               | 112                                   | 26                            | 103 | 95  | 86  | 74  | 63  | 51  | 38  | 32  | 29  | 26           | 21  | 17  | 14  | 12  | 15  | 13  | 12  | 15  | 14  | 12  | 13  | 11  | 14  | 12  | 13  | 11 | 14 | 12 |    |    |
| 52               | 122                                   | 28                            | 112 | 103 | 94  | 80  | 68  | 56  | 42  | 35  | 32  | 29           | 26  | 21  | 17  | 14  | 12  | 15  | 13  | 12  | 15  | 14  | 12  | 13  | 11  | 14  | 12  | 13 | 11 | 14 | 12 |    |
| 54               | 131                                   | 31                            | 121 | 111 | 101 | 90  | 74  | 60  | 45  | 38  | 32  | 29           | 26  | 21  | 17  | 14  | 12  | 15  | 13  | 12  | 15  | 14  | 12  | 13  | 11  | 14  | 12  | 13 | 11 | 14 | 12 |    |
| 56               | 141                                   | 33                            | 130 | 120 | 109 | 93  | 80  | 65  | 48  | 32  | 29  | 26           | 21  | 17  | 14  | 12  | 15  | 13  | 12  | 15  | 14  | 12  | 13  | 11  | 14  | 12  | 13  | 11 | 14 | 12 |    |    |
| 58               | 152                                   | 36                            | 140 | 129 | 117 | 100 | 86  | 70  | 52  | 37  | 32  | 29           | 26  | 21  | 17  | 14  | 12  | 15  | 13  | 12  | 15  | 14  | 12  | 13  | 11  | 14  | 12  | 13 | 11 | 14 | 12 |    |
| 60               | 163                                   | 38                            | 150 | 138 | 125 | 108 | 93  | 76  | 57  | 51  | 38  | 32           | 29  | 26  | 21  | 17  | 14  | 12  | 15  | 13  | 12  | 15  | 14  | 12  | 13  | 11  | 14  | 12 | 13 | 11 | 14 | 12 |
| 62               | 175                                   | 41                            | 161 | 148 | 134 | 116 | 100 | 81  | 61  | 51  | 38  | 32           | 29  | 26  | 21  | 17  | 14  | 12  | 15  | 13  | 12  | 15  | 14  | 12  | 13  | 11  | 14  | 12 | 13 | 11 | 14 | 12 |
| 64               | 186                                   | 44                            | 171 | 157 | 143 | 124 | 106 | 87  | 65  | 45  | 38  | 32           | 29  | 26  | 21  | 17  | 14  | 12  | 15  | 13  | 12  | 15  | 14  | 12  | 13  | 11  | 14  | 12 | 13 | 11 | 14 | 12 |
| 66               | 198                                   | 47                            | 183 | 168 | 153 | 132 | 113 | 93  | 69  | 58  | 48  | 32           | 29  | 26  | 21  | 17  | 14  | 12  | 15  | 13  | 12  | 15  | 14  | 12  | 13  | 11  | 14  | 12 | 13 | 11 | 14 | 12 |
| 68               | 210                                   | 50                            | 194 | 178 | 163 | 140 | 120 | 98  | 74  | 57  | 48  | 32           | 29  | 26  | 21  | 17  | 14  | 12  | 15  | 13  | 12  | 15  | 14  | 12  | 13  | 11  | 14  | 12 | 13 | 11 | 14 | 12 |
| 70               | 224                                   | 53                            | 206 | 189 | 172 | 149 | 128 | 105 | 79  | 210 | 193 | 176          | 151 | 120 | 98  | 75  | 211 | 196 | 171 | 149 | 123 | 108   | 83  | 131 | 114 | 95  | 73  | 52 | 30 |    |    |    |
| 72               | 237                                   | 56                            | 219 | 201 | 183 | 158 | 136 | 111 | 84  | 223 | 205 | 187          | 160 | 128 | 104 | 76  | 224 | 200 | 179 | 158 | 132 | 107   | 81  | 122 | 101 | 77  | 56  | 30 |    |    |    |    |
| 74               | 251                                   | 59                            | 231 | 212 | 193 | 167 | 143 | 117 | 89  | 236 | 216 | 197          | 169 | 135 | 110 | 84  | 236 | 203 | 189 | 167 | 147 | 129   | 107 | 81  | 122 | 101 | 77  | 56 | 30 |    |    |    |
| 76               | 265                                   | 63                            | 245 | 224 | 204 | 177 | 152 | 124 | 93  | 249 | 228 | 209          | 190 | 168 | 143 | 116 | 89  | 250 | 234 | 214 | 190 | 166   | 140 | 116 | 90  | 76  | 56  | 30 |    |    |    |    |
| 78               | 279                                   | 66                            | 258 | 236 | 215 | 186 | 160 | 131 | 98  | 262 | 240 | 220          | 201 | 177 | 150 | 122 | 94  | 263 | 236 | 216 | 191 | 166   | 143 | 116 | 91  | 76  | 56  | 30 |    |    |    |    |
| 80               | 295                                   | 70                            | 272 | 249 | 227 | 196 | 168 | 138 | 103 | 276 | 253 | 232          | 211 | 186 | 159 | 129 | 99  | 277 | 250 | 227 | 201 | 173   | 150 | 126 | 96  | 76  | 56  | 30 |    |    |    |    |
| 82               | 309                                   | 75                            | 286 | 263 | 239 | 207 | 177 | 145 | 109 | 291 | 267 | 244          | 223 | 196 | 167 | 136 | 104 | 292 | 264 | 235 | 207 | 182   | 158 | 133 | 102 | 76  | 56  | 30 |    |    |    |    |
| 84               | 325                                   | 78                            | 300 | 275 | 251 | 217 | 186 | 152 | 114 | 305 | 280 | 256          | 233 | 205 | 175 | 145 | 110 | 306 | 287 | 263 | 235 | 217   | 191 | 166 | 136 | 102 | 76  | 56 | 30 |    |    |    |
| 86               | 341                                   | 82                            | 315 | 289 | 263 | 228 | 196 | 160 | 120 | 321 | 294 | 269          | 245 | 216 | 184 | 150 | 115 | 321 | 302 | 276 | 248 | 228   | 201 | 175 | 156 | 131 | 102 | 76 | 56 | 30 |    |    |
| 88               | 357                                   | 86                            | 330 | 303 | 276 | 238 | 205 | 167 | 125 | 335 | 308 | 282          | 256 | 226 | 193 | 157 | 120 | 336 | 315 | 289 | 269 | 249   | 220 | 183 | 162 | 131 | 102 | 76 | 56 | 30 |    |    |
| 90               | 374                                   | 90                            | 346 | 317 | 289 | 250 | 215 | 175 | 132 | 351 | 322 | 296          | 268 | 237 | 202 | 165 | 127 | 353 | 331 | 303 | 283 | 250   | 220 | 191 | 160 | 123 | 76  | 56 | 30 |    |    |    |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                  |             |            | 3                             |     |     | 4   |     |     | 5   |     |     | 6   |     |     | 7   |     |     | 8   |     |     |
|                  |             |            | 2                             | 3   | 4   | 2   | 3   | 4   | 2   | 3   | 4   | 2   | 3   | 4   | 2   | 3   | 4   | 5   | 6   | 7   |
| Log position     |             |            |                               |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 12               | 5           | 3          | 4                             | 5   | 6   | 5   | 6   | 6   | 7   | 5   | 6   | 4   | 5   | 6   | 4   | 5   | 6   | 5   | 6   | 4   |
| 14               | 7           | 3          | 5                             | 6   | 7   | 6   | 7   | 6   | 8   | 6   | 7   | 5   | 6   | 7   | 5   | 6   | 7   | 5   | 6   | 4   |
| 16               | 10          | 3          | 6                             | 8   | 10  | 7   | 11  | 8   | 6   | 10  | 7   | 15  | 11  | 9   | 11  | 8   | 10  | 15  | 10  | 12  |
| 18               | 13          | 3          | 11                            | 13  | 10  | 10  | 16  | 13  | 9   | 17  | 15  | 11  | 15  | 11  | 17  | 11  | 17  | 13  | 16  | 10  |
| 20               | 16          | 3          | 13                            | 13  | 10  | 10  | 16  | 13  | 9   | 21  | 18  | 14  | 11  | 11  | 17  | 11  | 20  | 17  | 13  | 10  |
| 22               | 20          | 4          | 13                            | 16  | 12  | 19  | 16  | 11  | 21  | 18  | 14  | 9   | 26  | 21  | 19  | 15  | 20  | 17  | 13  | 10  |
| 24               | 24          | 5          | 16                            | 18  | 22  | 15  | 24  | 18  | 13  | 25  | 21  | 19  | 25  | 21  | 19  | 15  | 26  | 23  | 20  | 17  |
| 26               | 29          | 6          | 18                            | 26  | 18  | 28  | 22  | 15  | 29  | 25  | 19  | 14  | 29  | 25  | 21  | 17  | 30  | 27  | 24  | 20  |
| 28               | 34          | 7          | 26                            | 18  | 28  | 22  | 15  | 29  | 25  | 19  | 14  | 26  | 21  | 19  | 15  | 26  | 23  | 20  | 17  | 13  |
| 30               | 39          | 8          | 31                            | 21  | 33  | 26  | 18  | 35  | 29  | 22  | 16  | 35  | 30  | 26  | 20  | 15  | 36  | 32  | 28  | 23  |
| 32               | 45          | 10         | 35                            | 24  | 40  | 33  | 24  | 45  | 38  | 29  | 21  | 40  | 35  | 30  | 24  | 16  | 41  | 37  | 32  | 27  |
| 34               | 52          | 11         | 40                            | 30  | 48  | 38  | 26  | 49  | 33  | 24  | 52  | 45  | 38  | 30  | 21  | 19  | 47  | 40  | 35  | 28  |
| 36               | 58          | 13         | 51                            | 51  | 55  | 42  | 30  | 56  | 48  | 37  | 27  | 58  | 51  | 42  | 34  | 24  | 59  | 53  | 46  | 31  |
| 38               | 65          | 14         | 51                            | 54  | 54  | 54  | 55  | 55  | 56  | 56  | 56  | 56  | 56  | 56  | 56  | 56  | 59  | 53  | 46  | 31  |
| 40               | 72          | 16         | 61                            | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 64  | 53  | 46  |
| 42               | 80          | 18         | 67                            | 53  | 57  | 70  | 60  | 53  | 57  | 70  | 60  | 51  | 56  | 53  | 57  | 53  | 66  | 57  | 48  | 39  |
| 44               | 89          | 20         | 74                            | 58  | 61  | 77  | 68  | 58  | 61  | 77  | 68  | 72  | 63  | 68  | 72  | 63  | 73  | 63  | 53  | 43  |
| 46               | 97          | 22         | 81                            | 63  | 69  | 92  | 79  | 63  | 69  | 92  | 79  | 87  | 76  | 63  | 71  | 63  | 88  | 79  | 69  | 58  |
| 48               | 106         | 24         | 89                            | 89  | 89  | 92  | 92  | 89  | 89  | 92  | 92  | 95  | 83  | 69  | 80  | 75  | 97  | 87  | 75  | 64  |
| 50               | 115         | 27         | 97                            | 76  | 53  | 100 | 86  | 66  | 66  | 104 | 90  | 76  | 61  | 43  | 105 | 94  | 82  | 70  | 56  | 42  |
| 52               | 125         | 29         | 106                           | 82  | 58  | 110 | 93  | 72  | 52  | 113 | 98  | 82  | 67  | 47  | 114 | 103 | 89  | 76  | 60  | 46  |
| 54               | 134         | 31         | 113                           | 89  | 62  | 118 | 100 | 77  | 56  | 121 | 105 | 89  | 72  | 51  | 124 | 110 | 96  | 81  | 65  | 49  |
| 56               | 145         | 34         | 123                           | 96  | 67  | 127 | 108 | 84  | 61  | 131 | 114 | 96  | 78  | 55  | 134 | 120 | 104 | 88  | 70  | 53  |
| 58               | 156         | 37         | 132                           | 103 | 73  | 137 | 116 | 90  | 66  | 140 | 123 | 103 | 84  | 60  | 143 | 128 | 111 | 96  | 76  | 58  |
| 60               | 168         | 39         | 142                           | 111 | 78  | 147 | 125 | 97  | 71  | 151 | 132 | 111 | 90  | 64  | 154 | 138 | 119 | 103 | 82  | 62  |
| 62               | 179         | 42         | 158                           | 134 | 104 | 158 | 134 | 104 | 111 | 169 | 144 | 111 | 81  | 73  | 165 | 147 | 128 | 110 | 88  | 67  |
| 64               | 191         | 45         | 179                           | 153 | 118 | 179 | 153 | 118 | 118 | 191 | 163 | 126 | 91  | 161 | 159 | 176 | 157 | 137 | 118 | 72  |
| 66               | 203         | 48         | 203                           | 203 | 203 | 204 | 204 | 204 | 159 | 215 | 214 | 181 | 184 | 181 | 181 | 181 | 187 | 167 | 147 | 97  |
| 68               | 216         | 51         | 216                           | 216 | 216 | 216 | 216 | 216 | 167 | 216 | 216 | 171 | 171 | 171 | 171 | 171 | 198 | 176 | 155 | 100 |
| 70               | 230         | 54         | 203                           | 173 | 134 | 203 | 173 | 134 | 96  | 208 | 182 | 153 | 124 | 89  | 212 | 189 | 164 | 142 | 113 | 86  |
| 72               | 244         | 58         | 215                           | 183 | 142 | 228 | 194 | 150 | 109 | 232 | 203 | 172 | 131 | 101 | 225 | 200 | 174 | 150 | 120 | 91  |
| 74               | 258         | 61         | 239                           | 204 | 159 | 239 | 204 | 159 | 115 | 245 | 214 | 181 | 148 | 106 | 250 | 238 | 212 | 184 | 159 | 127 |
| 76               | 272         | 64         | 253                           | 216 | 167 | 253 | 216 | 167 | 121 | 259 | 226 | 191 | 156 | 112 | 265 | 236 | 224 | 194 | 168 | 102 |
| 78               | 287         | 68         | 268                           | 227 | 176 | 268 | 227 | 176 | 128 | 272 | 238 | 202 | 165 | 119 | 279 | 249 | 228 | 196 | 157 | 119 |
| 80               | 302         | 71         | 282                           | 239 | 185 | 282 | 239 | 185 | 135 | 267 | 251 | 212 | 173 | 125 | 308 | 276 | 239 | 206 | 165 | 125 |
| 82               | 318         | 75         | 294                           | 252 | 196 | 308 | 263 | 206 | 148 | 316 | 276 | 233 | 191 | 137 | 323 | 289 | 250 | 216 | 172 | 132 |
| 84               | 333         | 81         | 308                           | 263 | 206 | 323 | 276 | 215 | 155 | 331 | 290 | 245 | 200 | 143 | 339 | 303 | 263 | 226 | 181 | 137 |
| 86               | 349         | 84         | 366                           | 366 | 89  | 339 | 289 | 225 | 163 | 347 | 303 | 256 | 210 | 151 | 355 | 317 | 275 | 237 | 190 | 144 |
| 88               | 366         | 93         | 383                           | 383 | 93  | 339 | 289 | 225 | 163 | 347 | 303 | 256 | 210 | 151 | 355 | 317 | 275 | 237 | 190 | 144 |

|                  |             |            | Tree height in number of logs |     |     |     |     |     |     |     |     |     |     |     |     |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                  |             |            | 9                             |     |     |     |     |     | 10  |     |     |     |     |     |     |
|                  |             |            | Log position                  |     |     |     |     |     |     |     |     |     |     |     |     |
| D.b.h.<br>inches | Butt<br>log | Top<br>log | 2                             | 3   | 4   | 5   | 6   | 7   | 8   | 2   | 3   | 4   | 5   | 6   |     |
| 26               | 29          | 6          | 26                            | 24  | 22  | 18  | 16  | 13  | 9   | 82  | 75  | 69  | 63  | 55  |     |
| 28               | 34          | 7          | 31                            | 28  | 26  | 22  | 18  | 15  | 11  | 90  | 83  | 76  | 69  | 60  |     |
| 30               | 39          | 8          | 36                            | 33  | 30  | 26  | 22  | 17  | 13  | 99  | 90  | 83  | 75  | 66  |     |
| 32               | 45          | 10         | 41                            | 38  | 34  | 29  | 25  | 20  | 16  | 117 | 107 | 98  | 89  | 80  |     |
| 34               | 52          | 11         | 47                            | 43  | 39  | 34  | 29  | 23  | 17  | 126 | 118 | 108 | 100 | 91  |     |
| 36               | 58          | 13         | 52                            | 48  | 38  | 32  | 26  | 20  | 14  | 135 | 128 | 117 | 109 | 96  |     |
| 38               | 65          | 14         | 59                            | 55  | 49  | 43  | 36  | 29  | 22  | 146 | 138 | 126 | 117 | 103 |     |
| 40               | 72          | 16         | 67                            | 61  | 55  | 40  | 33  | 25  | 21  | 108 | 98  | 90  | 82  | 72  |     |
| 42               | 80          | 18         | 74                            | 67  | 61  | 53  | 45  | 37  | 27  | 117 | 107 | 98  | 89  | 83  |     |
| 44               | 89          | 20         | 82                            | 74  | 68  | 58  | 49  | 40  | 30  | 126 | 115 | 105 | 96  | 85  |     |
| 46               | 97          | 22         | 89                            | 81  | 74  | 63  | 54  | 44  | 33  | 135 | 124 | 113 | 103 | 90  |     |
| 48               | 106         | 24         | 97                            | 89  | 81  | 70  | 59  | 48  | 36  | 146 | 134 | 123 | 111 | 98  |     |
| 50               | 115         | 27         | 105                           | 97  | 89  | 80  | 70  | 53  | 39  | 108 | 98  | 90  | 82  | 71  |     |
| 52               | 125         | 29         | 115                           | 106 | 96  | 82  | 70  | 57  | 43  | 117 | 107 | 98  | 89  | 80  |     |
| 54               | 134         | 31         | 124                           | 113 | 103 | 89  | 75  | 61  | 47  | 126 | 115 | 105 | 96  | 84  |     |
| 56               | 145         | 34         | 133                           | 123 | 112 | 96  | 82  | 67  | 50  | 135 | 124 | 113 | 103 | 90  |     |
| 58               | 156         | 37         | 144                           | 132 | 120 | 103 | 88  | 72  | 54  | 146 | 134 | 123 | 111 | 98  |     |
| 60               | 168         | 39         | 154                           | 141 | 129 | 111 | 95  | 78  | 59  | 157 | 141 | 132 | 120 | 105 |     |
| 62               | 179         | 42         | 165                           | 152 | 137 | 119 | 102 | 84  | 63  | 168 | 154 | 141 | 129 | 113 |     |
| 64               | 191         | 45         | 176                           | 162 | 147 | 127 | 109 | 90  | 68  | 180 | 165 | 151 | 137 | 120 |     |
| 66               | 203         | 48         | 187                           | 172 | 156 | 135 | 116 | 95  | 72  | 191 | 175 | 160 | 146 | 128 |     |
| 68               | 216         | 51         | 199                           | 183 | 166 | 144 | 124 | 101 | 77  | 203 | 186 | 171 | 156 | 137 |     |
| 70               | 230         | 54         | 212                           | 194 | 177 | 153 | 132 | 107 | 81  | 216 | 198 | 181 | 165 | 144 |     |
| 72               | 244         | 58         | 225                           | 206 | 188 | 162 | 139 | 114 | 85  | 229 | 210 | 192 | 175 | 153 |     |
| 74               | 258         | 61         | 238                           | 218 | 199 | 171 | 147 | 121 | 91  | 242 | 222 | 203 | 186 | 163 |     |
| 76               | 272         | 64         | 250                           | 230 | 209 | 181 | 156 | 128 | 95  | 255 | 234 | 214 | 195 | 171 |     |
| 78               | 287         | 68         | 264                           | 243 | 221 | 191 | 164 | 135 | 100 | 269 | 247 | 226 | 206 | 181 |     |
| 80               | 302         | 71         | 279                           | 256 | 233 | 201 | 173 | 142 | 107 | 284 | 260 | 238 | 217 | 191 |     |
| 82               | 318         | 75         | 293                           | 269 | 245 | 212 | 182 | 149 | 107 | 294 | 274 | 251 | 228 | 201 |     |
| 84               | 333         | 81         | 308                           | 283 | 258 | 223 | 191 | 156 | 119 | 314 | 288 | 263 | 240 | 211 |     |
| 86               | 349         | 84         | 323                           | 296 | 270 | 233 | 200 | 164 | 125 | 329 | 301 | 276 | 251 | 222 |     |
| 88               | 359         | 89         | 339                           | 311 | 283 | 244 | 210 | 171 | 130 | 344 | 316 | 289 | 263 | 232 |     |
| 90               | 383         | 93         | 355                           | 326 | 296 | 256 | 221 | 180 | 136 | 361 | 331 | 303 | 276 | 243 |     |
|                  |             |            |                               |     |     |     |     |     |     | 361 | 331 | 303 | 276 | 243 |     |
|                  |             |            |                               |     |     |     |     |     |     |     | 362 | 339 | 311 | 290 | 257 |
|                  |             |            |                               |     |     |     |     |     |     |     |     | 362 | 339 | 311 | 290 |
|                  |             |            |                               |     |     |     |     |     |     |     |     |     | 362 | 339 | 311 |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     |     |     |     |     |   |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
|                  |             |            | 3                             |     |     | 4   |     |     | 5   |     |     | 6   |     |     | 7   |     |   |
|                  |             |            | 2                             | 2   | 3   | 2   | 3   | 4   | 2   | 3   | 4   | 5   | 2   | 3   | 4   | 5   | 6 |
| Log position     |             |            |                               |     |     |     |     |     |     |     |     |     |     |     |     |     |   |
| 12               | 5           | 3          | 4                             | 6   | 5   | 6   | 6   | 5   | 4   | 5   | 6   | 7   | 6   | 8   | 7   | 10  |   |
| 14               | 7           | 3          | 6                             | 8   | 6   | 9   | 7   | 6   | 5   | 6   | 7   | 8   | 7   | 10  | 13  | 14  |   |
| 16               | 10          | 3          | 7                             | 9   | 11  | 7   | 11  | 9   | 6   | 11  | 13  | 11  | 12  | 16  | 16  | 13  |   |
| 18               | 13          | 3          | 10                            | 15  | 16  | 18  | 17  | 15  | 10  | 17  | 15  | 12  | 11  | 14  | 14  | 10  |   |
| 20               | 17          | 3          | 13                            | 8   | 13  | 19  | 13  | 21  | 16  | 11  | 18  | 13  | 23  | 19  | 21  | 17  |   |
| 22               | 21          | 4          | 16                            | 10  | 17  | 15  | 13  | 15  | 10  | 17  | 15  | 12  | 27  | 21  | 17  | 14  |   |
| 24               | 25          | 5          | 16                            | 19  | 15  | 23  | 15  | 25  | 19  | 13  | 22  | 17  | 23  | 32  | 25  | 19  |   |
| 26               | 30          | 6          | 19                            | 23  | 15  | 27  | 18  | 29  | 22  | 16  | 20  | 14  | 26  | 28  | 22  | 22  |   |
| 28               | 35          | 7          | 27                            | 18  | 27  | 18  | 22  | 16  | 26  | 20  | 14  | 31  | 27  | 40  | 32  | 25  |   |
| 30               | 40          | 9          | 32                            | 21  | 34  | 26  | 18  | 35  | 30  | 23  | 25  | 16  | 36  | 31  | 28  | 22  |   |
| 32               | 46          | 11         | 36                            | 24  | 38  | 30  | 21  | 40  | 34  | 26  | 21  | 15  | 37  | 33  | 28  | 22  |   |
| 34               | 52          | 12         | 41                            | 28  | 44  | 34  | 25  | 46  | 39  | 30  | 21  | 17  | 42  | 37  | 32  | 19  |   |
| 36               | 59          | 14         | 56                            | 31  | 50  | 48  | 27  | 52  | 44  | 34  | 24  | 17  | 48  | 49  | 45  | 25  |   |
| 38               | 66          | 15         | 52                            | 36  | 56  | 50  | 31  | 58  | 50  | 38  | 27  | 20  | 55  | 50  | 47  | 32  |   |
| 40               | 74          | 17         | 58                            | 39  | 62  | 49  | 34  | 65  | 55  | 43  | 30  | 21  | 56  | 52  | 45  | 36  |   |
| 42               | 82          | 19         | 62                            | 49  | 70  | 60  | 42  | 79  | 67  | 52  | 40  | 31  | 67  | 59  | 50  | 29  |   |
| 44               | 90          | 21         | 99                            | 23  | 108 | 84  | 65  | 87  | 74  | 57  | 41  | 34  | 82  | 71  | 64  | 33  |   |
| 46               | 99          | 23         | 108                           | 25  | 92  | 71  | 51  | 95  | 81  | 63  | 55  | 47  | 90  | 82  | 71  | 37  |   |
| 48               | 118         | 27         | 100                           | 78  | 104 | 86  | 68  | 109 | 98  | 85  | 72  | 58  | 111 | 99  | 89  | 77  |   |
| 50               | 126         | 30         | 106                           | 84  | 112 | 95  | 74  | 111 | 102 | 91  | 80  | 65  | 108 | 97  | 84  | 72  |   |
| 52               | 137         | 32         | 106                           | 91  | 104 | 90  | 81  | 107 | 97  | 86  | 74  | 61  | 117 | 107 | 96  | 82  |   |
| 54               | 149         | 35         | 126                           | 99  | 131 | 111 | 88  | 111 | 100 | 91  | 80  | 65  | 126 | 113 | 98  | 83  |   |
| 56               | 160         | 37         | 136                           | 107 | 141 | 120 | 93  | 120 | 115 | 105 | 90  | 77  | 136 | 122 | 106 | 92  |   |
| 58               | 172         | 40         | 145                           | 114 | 151 | 129 | 100 | 122 | 110 | 108 | 91  | 74  | 136 | 122 | 106 | 92  |   |
| 60               | 183         | 44         | 162                           | 116 | 112 | 105 | 80  | 116 | 105 | 105 | 95  | 88  | 146 | 131 | 114 | 104 |   |
| 62               | 196         | 46         | 173                           | 117 | 117 | 111 | 83  | 117 | 107 | 107 | 97  | 92  | 157 | 141 | 123 | 104 |   |
| 64               | 209         | 50         | 184                           | 157 | 157 | 121 | 88  | 119 | 105 | 105 | 95  | 80  | 160 | 150 | 130 | 105 |   |
| 66               | 222         | 53         | 196                           | 167 | 167 | 129 | 94  | 120 | 115 | 115 | 106 | 85  | 170 | 156 | 137 | 110 |   |
| 68               | 236         | 56         | 208                           | 177 | 177 | 100 | 72  | 155 | 136 | 114 | 92  | 67  | 157 | 141 | 123 | 106 |   |
| 70               | 250         | 60         | 221                           | 188 | 188 | 107 | 73  | 166 | 145 | 122 | 99  | 72  | 168 | 151 | 131 | 114 |   |
| 72               | 264         | 62         | 233                           | 199 | 199 | 151 | 112 | 177 | 155 | 130 | 107 | 76  | 177 | 153 | 133 | 114 |   |
| 74               | 279         | 66         | 247                           | 210 | 162 | 118 | 82  | 252 | 220 | 186 | 152 | 109 | 256 | 230 | 200 | 180 |   |
| 76               | 295         | 70         | 260                           | 222 | 171 | 124 | 94  | 265 | 232 | 196 | 160 | 116 | 270 | 243 | 210 | 182 |   |
| 78               | 310         | 74         | 274                           | 180 | 151 | 129 | 100 | 213 | 187 | 157 | 127 | 91  | 216 | 194 | 168 | 145 |   |
| 80               | 326         | 78         | 287                           | 225 | 181 | 138 | 105 | 225 | 197 | 166 | 136 | 97  | 229 | 206 | 179 | 157 |   |
| 82               | 343         | 82         | 302                           | 257 | 200 | 165 | 115 | 238 | 208 | 176 | 145 | 104 | 226 | 201 | 162 | 123 |   |
| 84               | 360         | 86         | 316                           | 270 | 211 | 152 | 110 | 252 | 220 | 186 | 152 | 109 | 256 | 230 | 200 | 174 |   |
| 86               | 377         | 91         | 331                           | 283 | 221 | 159 | 119 | 265 | 232 | 196 | 160 | 116 | 270 | 243 | 210 | 183 |   |
| 88               | 395         | 95         | 347                           | 296 | 231 | 167 | 117 | 280 | 244 | 207 | 169 | 121 | 284 | 256 | 222 | 191 |   |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     | Tree height in number of logs |     |     |     |     |     |     |     |     |     |     |     |     |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                  |             |            | 9                             |     |     |     |     | 10  |     |     |     |     | 11                            |     |     |     |     | 9   |     |     |     |     |     |     |     |
|                  |             |            | 2                             | 3   | 4   | 5   | 6   | 7   | 8   | 2   | 3   | 4   | 5                             | 6   | 7   | 8   | 9   | 2   | 3   | 4   | 5   | 6   | 7   | 8   |     |
| 26               | 30          | 6          | 27                            | 25  | 22  | 19  | 16  | 13  | 10  | 85  | 78  | 71  | 64                            | 56  | 48  | 41  | 39  | 111 | 104 | 95  | 88  | 81  | 74  | 65  | 58  |
| 28               | 35          | 7          | 32                            | 31  | 26  | 22  | 18  | 13  | 10  | 93  | 85  | 77  | 71                            | 62  | 53  | 45  | 39  | 120 | 113 | 103 | 96  | 89  | 80  | 70  | 63  |
| 30               | 40          | 9          | 37                            | 34  | 31  | 26  | 22  | 18  | 13  | 102 | 93  | 85  | 77                            | 67  | 58  | 47  | 36  | 140 | 131 | 120 | 112 | 99  | 87  | 70  | 68  |
| 32               | 46          | 11         | 42                            | 39  | 35  | 30  | 26  | 21  | 15  | 105 | 97  | 88  | 80                            | 73  | 65  | 55  | 45  | 140 | 131 | 120 | 112 | 99  | 87  | 70  | 63  |
| 34               | 52          | 12         | 48                            | 44  | 40  | 34  | 30  | 24  | 18  | 105 | 97  | 88  | 80                            | 73  | 65  | 55  | 45  | 140 | 131 | 120 | 112 | 99  | 87  | 70  | 63  |
| 36               | 59          | 14         | 54                            | 50  | 45  | 39  | 33  | 27  | 20  | 105 | 97  | 88  | 80                            | 73  | 65  | 55  | 45  | 140 | 131 | 120 | 112 | 99  | 87  | 70  | 63  |
| 38               | 66          | 15         | 61                            | 56  | 51  | 44  | 37  | 31  | 22  | 105 | 97  | 88  | 80                            | 73  | 65  | 55  | 45  | 140 | 131 | 120 | 112 | 99  | 87  | 70  | 63  |
| 40               | 74          | 17         | 68                            | 62  | 57  | 49  | 44  | 34  | 25  | 105 | 97  | 88  | 80                            | 73  | 65  | 55  | 45  | 140 | 131 | 120 | 112 | 99  | 87  | 70  | 63  |
| 42               | 82          | 19         | 69                            | 63  | 54  | 46  | 41  | 31  | 25  | 105 | 97  | 88  | 80                            | 73  | 65  | 55  | 45  | 140 | 131 | 120 | 112 | 99  | 87  | 70  | 63  |
| 44               | 90          | 21         | 83                            | 76  | 69  | 51  | 44  | 31  | 25  | 105 | 97  | 88  | 80                            | 73  | 65  | 55  | 45  | 140 | 131 | 120 | 112 | 99  | 87  | 70  | 63  |
| 46               | 99          | 23         | 91                            | 84  | 76  | 65  | 56  | 45  | 35  | 105 | 97  | 88  | 80                            | 73  | 65  | 55  | 45  | 140 | 131 | 120 | 112 | 99  | 87  | 70  | 63  |
| 48               | 108         | 25         | 100                           | 92  | 83  | 71  | 61  | 50  | 37  | 105 | 97  | 88  | 80                            | 73  | 65  | 55  | 45  | 140 | 131 | 120 | 112 | 99  | 87  | 70  | 63  |
| 50               | 118         | 27         | 108                           | 99  | 91  | 78  | 67  | 55  | 40  | 111 | 101 | 93  | 84                            | 73  | 63  | 51  | 39  | 111 | 104 | 95  | 88  | 81  | 74  | 65  | 58  |
| 52               | 128         | 30         | 118                           | 108 | 99  | 85  | 72  | 60  | 44  | 120 | 110 | 100 | 92                            | 80  | 68  | 55  | 45  | 120 | 113 | 103 | 96  | 89  | 80  | 71  | 64  |
| 54               | 137         | 32         | 120                           | 116 | 106 | 91  | 77  | 63  | 47  | 128 | 118 | 107 | 98                            | 86  | 73  | 59  | 45  | 120 | 113 | 103 | 96  | 89  | 80  | 71  | 64  |
| 56               | 149         | 35         | 138                           | 126 | 115 | 99  | 84  | 68  | 52  | 140 | 128 | 117 | 100                           | 93  | 80  | 65  | 55  | 140 | 131 | 120 | 112 | 99  | 87  | 70  | 63  |
| 58               | 160         | 37         | 147                           | 135 | 123 | 106 | 92  | 75  | 56  | 150 | 138 | 126 | 115                           | 101 | 86  | 70  | 53  | 151 | 141 | 129 | 120 | 107 | 94  | 81  | 52  |
| 60               | 172         | 40         | 158                           | 145 | 132 | 114 | 98  | 80  | 60  | 161 | 148 | 135 | 123                           | 108 | 92  | 75  | 57  | 162 | 152 | 139 | 129 | 114 | 100 | 87  | 73  |
| 62               | 183         | 44         | 169                           | 155 | 141 | 122 | 105 | 87  | 64  | 172 | 158 | 145 | 131                           | 116 | 99  | 80  | 61  | 173 | 162 | 148 | 138 | 122 | 107 | 94  | 79  |
| 64               | 196         | 46         | 180                           | 166 | 151 | 130 | 112 | 92  | 69  | 181 | 169 | 154 | 131                           | 124 | 105 | 86  | 65  | 185 | 173 | 162 | 158 | 144 | 131 | 115 | 100 |
| 66               | 209         | 50         | 192                           | 177 | 161 | 139 | 119 | 97  | 74  | 190 | 180 | 165 | 149                           | 132 | 112 | 91  | 70  | 197 | 185 | 176 | 168 | 158 | 145 | 132 | 118 |
| 68               | 222         | 53         | 205                           | 188 | 171 | 148 | 127 | 103 | 78  | 209 | 191 | 175 | 159                           | 140 | 120 | 97  | 74  | 209 | 196 | 187 | 179 | 167 | 150 | 130 | 114 |
| 70               | 236         | 56         | 217                           | 199 | 182 | 157 | 135 | 110 | 83  | 221 | 203 | 185 | 170                           | 148 | 127 | 103 | 79  | 222 | 208 | 190 | 178 | 157 | 140 | 120 | 101 |
| 72               | 250         | 60         | 230                           | 211 | 192 | 166 | 143 | 117 | 88  | 235 | 215 | 197 | 179                           | 157 | 134 | 109 | 84  | 235 | 221 | 202 | 186 | 167 | 150 | 136 | 116 |
| 74               | 264         | 62         | 242                           | 204 | 176 | 151 | 124 | 93  | 248 | 227 | 209 | 190 | 167                           | 142 | 116 | 99  | 84  | 248 | 233 | 214 | 199 | 176 | 158 | 143 | 120 |
| 76               | 279         | 66         | 257                           | 236 | 215 | 185 | 159 | 131 | 99  | 262 | 240 | 220 | 201                           | 177 | 150 | 122 | 94  | 263 | 247 | 225 | 210 | 186 | 163 | 143 | 120 |
| 78               | 295         | 70         | 271                           | 249 | 227 | 196 | 168 | 138 | 104 | 276 | 253 | 232 | 211                           | 186 | 159 | 129 | 99  | 277 | 260 | 238 | 222 | 196 | 173 | 150 | 126 |
| 80               | 310         | 74         | 286                           | 262 | 239 | 206 | 178 | 145 | 110 | 291 | 267 | 244 | 223                           | 196 | 167 | 136 | 104 | 292 | 274 | 250 | 233 | 207 | 182 | 158 | 133 |
| 82               | 315         | 78         | 296                           | 251 | 217 | 187 | 153 | 115 | 115 | 306 | 281 | 257 | 234                           | 206 | 176 | 143 | 110 | 306 | 288 | 264 | 241 | 221 | 191 | 167 | 139 |
| 84               | 315         | 82         | 290                           | 264 | 228 | 196 | 160 | 122 | 122 | 321 | 295 | 270 | 245                           | 217 | 185 | 151 | 115 | 322 | 302 | 277 | 258 | 229 | 201 | 176 | 146 |
| 86               | 332         | 86         | 304                           | 277 | 239 | 206 | 168 | 127 | 127 | 337 | 309 | 283 | 258                           | 228 | 194 | 158 | 121 | 338 | 317 | 291 | 271 | 240 | 211 | 184 | 154 |
| 88               | 348         | 91         | 319                           | 291 | 251 | 216 | 176 | 132 | 132 | 354 | 324 | 296 | 270                           | 239 | 203 | 166 | 127 | 354 | 333 | 304 | 284 | 252 | 221 | 193 | 161 |
| 90               | 354         | 95         | 304                           | 304 | 283 | 226 | 184 | 139 | 370 | 359 | 311 | 282 | 250                           | 213 | 174 | 133 | 371 | 348 | 319 | 297 | 263 | 231 | 202 | 169 | 129 |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |    |     |     |     |     |     |     |     |     |     | Log position |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
|------------------|-------------|------------|-------------------------------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|
|                  |             |            | 3                             | 4   | 5  | 6   | 7   | 8   | 3   | 4   | 5   | 6   | 7   | 8   | 3            | 4   | 5   | 6   | 7   | 8   | 3   | 4   | 5   | 6   | 7   | 8   |     |     |    |    |    |
| 12               | 5           | 3          | 4                             | 6   | 5  | 7   | 6   | 4   | 12  | 9   | 7   | 6   | 4   | 12  | 8            | 7   | 6   | 4   | 12  | 8   | 7   | 6   | 4   | 12  | 8   | 7   | 6   |     |    |    |    |
| 14               | 7           | 3          | 8                             | 9   | 6  | 7   | 9   | 5   | 14  | 11  | 11  | 10  | 8   | 15  | 18           | 16  | 12  | 10  | 15  | 18  | 16  | 14  | 12  | 10  | 14  | 12  | 10  |     |    |    |    |
| 16               | 10          | 3          | 11                            | 13  | 9  | 10  | 11  | 9   | 16  | 11  | 21  | 16  | 20  | 15  | 18           | 19  | 14  | 10  | 28  | 24  | 20  | 16  | 13  | 10  | 14  | 11  | 12  |     |    |    |    |
| 18               | 14          | 3          | 14                            | 16  | 16 | 20  | 13  | 11  | 18  | 11  | 21  | 16  | 25  | 20  | 27           | 22  | 17  | 12  | 32  | 28  | 23  | 18  | 15  | 12  | 14  | 11  | 12  |     |    |    |    |
| 20               | 17          | 3          | 11                            | 13  | 9  | 14  | 11  | 8   | 18  | 11  | 21  | 16  | 25  | 20  | 27           | 22  | 17  | 12  | 32  | 28  | 23  | 18  | 15  | 12  | 14  | 11  | 12  |     |    |    |    |
| 22               | 21          | 4          | 16                            | 18  | 16 | 20  | 13  | 11  | 18  | 11  | 21  | 16  | 25  | 20  | 27           | 22  | 17  | 12  | 32  | 28  | 23  | 18  | 15  | 12  | 14  | 11  | 12  |     |    |    |    |
| 24               | 26          | 5          | 20                            | 24  | 15 | 24  | 15  | 13  | 25  | 20  | 24  | 16  | 30  | 25  | 27           | 22  | 17  | 12  | 32  | 28  | 23  | 18  | 15  | 12  | 14  | 11  | 12  |     |    |    |    |
| 26               | 31          | 0          | 28                            | 30  | 8  | 28  | 18  | 16  | 30  | 23  | 16  | 31  | 26  | 20  | 28           | 23  | 17  | 12  | 32  | 28  | 23  | 18  | 15  | 12  | 14  | 11  | 12  |     |    |    |    |
| 28               | 36          | 8          | 30                            | 41  | 9  | 32  | 22  | 19  | 35  | 27  | 19  | 36  | 31  | 23  | 17           | 37  | 32  | 27  | 22  | 15  | 38  | 34  | 29  | 25  | 20  | 14  | 12  | 10  |    |    |    |
| 30               | 41          | 9          | 10                            | 17  | 12 | 37  | 26  | 22  | 40  | 31  | 22  | 42  | 35  | 27  | 19           | 43  | 37  | 31  | 25  | 18  | 44  | 39  | 33  | 28  | 23  | 17  | 14  | 12  |    |    |    |
| 32               | 47          | 10         | 12                            | 54  | 12 | 42  | 28  | 25  | 45  | 35  | 25  | 47  | 40  | 30  | 22           | 48  | 42  | 35  | 28  | 21  | 50  | 43  | 37  | 32  | 25  | 20  | 14  | 12  |    |    |    |
| 34               | 54          | 21         | 23                            | 61  | 14 | 48  | 32  | 28  | 51  | 40  | 28  | 53  | 46  | 35  | 25           | 55  | 48  | 40  | 32  | 23  | 56  | 50  | 43  | 37  | 29  | 22  | 14  | 12  |    |    |    |
| 36               | 61          | 23         | 111                           | 114 | 14 | 54  | 36  | 30  | 58  | 45  | 31  | 60  | 51  | 39  | 28           | 62  | 54  | 45  | 36  | 25  | 63  | 56  | 48  | 41  | 33  | 25  | 20  | 14  |    |    |    |
| 38               | 68          | 16         | 16                            | 76  | 17 | 59  | 40  | 64  | 64  | 50  | 35  | 67  | 57  | 43  | 31           | 69  | 60  | 50  | 40  | 28  | 70  | 62  | 54  | 45  | 37  | 28  | 14  | 12  |    |    |    |
| 40               | 76          | 17         | 19                            | 93  | 21 | 94  | 73  | 53  | 71  | 55  | 39  | 74  | 63  | 48  | 35           | 76  | 66  | 55  | 45  | 32  | 77  | 69  | 60  | 50  | 41  | 31  | 24  | 14  |    |    |    |
| 42               | 84          | 21         | 23                            | 102 | 23 | 86  | 67  | 48  | 86  | 67  | 48  | 90  | 70  | 59  | 42           | 93  | 81  | 71  | 54  | 34  | 84  | 76  | 66  | 56  | 45  | 34  | 24  | 14  |    |    |    |
| 44               | 93          | 23         | 111                           | 111 | 25 | 94  | 73  | 53  | 98  | 63  | 44  | 101 | 88  | 73  | 60           | 102 | 92  | 80  | 68  | 54  | 102 | 92  | 80  | 68  | 56  | 44  | 34  | 22  |    |    |    |
| 46               | 102         | 25         | 121                           | 121 | 28 | 102 | 80  | 57  | 106 | 90  | 70  | 51  | 110 | 95  | 80           | 65  | 111 | 100 | 87  | 73  | 58  | 111 | 100 | 87  | 73  | 60  | 45  | 34  | 22 |    |    |
| 48               | 111         | 25         | 131                           | 131 | 30 | 110 | 67  | 62  | 115 | 98  | 76  | 55  | 119 | 103 | 87           | 70  | 120 | 108 | 94  | 80  | 63  | 149 | 130 | 116 | 101 | 86  | 68  | 53  | 41 |    |    |
| 50               | 121         | 28         | 131                           | 131 | 33 | 119 | 93  | 67  | 124 | 105 | 82  | 59  | 127 | 111 | 91           | 76  | 130 | 116 | 94  | 80  | 68  | 150 | 135 | 117 | 101 | 82  | 62  | 56  | 42 |    |    |
| 52               | 131         | 30         | 131                           | 131 | 36 | 129 | 101 | 73  | 135 | 115 | 89  | 64  | 138 | 121 | 102          | 82  | 140 | 126 | 109 | 94  | 75  | 152 | 132 | 116 | 101 | 86  | 62  | 58  | 42 |    |    |
| 54               | 141         | 33         | 153                           | 153 | 36 | 129 | 101 | 73  | 135 | 115 | 89  | 64  | 145 | 123 | 96           | 69  | 149 | 130 | 109 | 88  | 64  | 153 | 132 | 117 | 101 | 82  | 62  | 56  | 42 |    |    |
| 56               | 153         | 36         | 165                           | 165 | 38 | 139 | 109 | 78  | 145 | 123 | 105 | 82  | 155 | 132 | 103          | 74  | 159 | 139 | 117 | 95  | 69  | 161 | 145 | 126 | 108 | 87  | 67  | 56  | 42 |    |    |
| 58               | 165         | 38         | 176                           | 176 | 41 | 150 | 117 | 83  | 155 | 132 | 103 | 74  | 162 | 141 | 102          | 71  | 159 | 139 | 117 | 95  | 69  | 161 | 145 | 126 | 108 | 87  | 67  | 56  | 42 |    |    |
| 60               | 186         | 44         | 201                           | 47  | 47 | 110 | 67  | 62  | 166 | 141 | 110 | 80  | 170 | 149 | 102          | 73  | 172 | 155 | 134 | 116 | 93  | 72  | 183 | 161 | 142 | 124 | 99  | 76  | 56 | 42 |    |
| 62               | 201         | 47         | 214                           | 51  | 51 | 119 | 93  | 67  | 177 | 151 | 117 | 85  | 182 | 159 | 102          | 73  | 187 | 167 | 147 | 125 | 103 | 81  | 186 | 165 | 143 | 123 | 99  | 76  | 56 | 42 |    |
| 64               | 226         | 51         | 228                           | 54  | 54 | 129 | 101 | 73  | 186 | 161 | 125 | 91  | 194 | 170 | 113          | 83  | 197 | 177 | 153 | 132 | 106 | 81  | 190 | 169 | 148 | 128 | 98  | 76  | 56 | 42 |    |
| 66               | 242         | 57         | 242                           | 57  | 57 | 131 | 103 | 78  | 196 | 173 | 141 | 108 | 202 | 171 | 102          | 73  | 205 | 177 | 157 | 132 | 106 | 81  | 209 | 186 | 163 | 141 | 112 | 86  | 56 | 42 |    |
| 68               | 256         | 61         | 271                           | 64  | 64 | 201 | 159 | 114 | 204 | 159 | 114 | 213 | 180 | 148 | 106          | 214 | 184 | 159 | 132 | 106 | 81  | 216 | 186 | 163 | 141 | 112 | 86  | 56  | 42 |    |    |
| 70               | 271         | 64         | 287                           | 68  | 68 | 216 | 168 | 121 | 226 | 168 | 121 | 226 | 191 | 150 | 112          | 227 | 177 | 148 | 126 | 106 | 81  | 227 | 186 | 163 | 141 | 112 | 86  | 56  | 42 |    |    |
| 72               | 276         | 64         | 302                           | 68  | 68 | 226 | 178 | 132 | 235 | 178 | 132 | 235 | 206 | 176 | 148          | 126 | 236 | 186 | 156 | 132 | 106 | 81  | 236 | 194 | 163 | 141 | 112 | 86  | 56 | 42 |    |
| 74               | 302         | 72         | 302                           | 72  | 72 | 227 | 177 | 132 | 235 | 178 | 132 | 235 | 206 | 176 | 148          | 126 | 236 | 186 | 156 | 132 | 106 | 81  | 236 | 194 | 163 | 141 | 112 | 86  | 56 | 42 |    |
| 76               | 307         | 72         | 325                           | 72  | 72 | 235 | 186 | 141 | 246 | 186 | 141 | 246 | 216 | 184 | 156          | 126 | 247 | 206 | 176 | 156 | 132 | 106 | 81  | 247 | 205 | 177 | 141 | 112 | 86 | 56 | 42 |
| 78               | 325         | 72         | 325                           | 72  | 72 | 235 | 186 | 141 | 246 | 186 | 141 | 246 | 216 | 184 | 156          | 126 | 247 | 206 | 176 | 156 | 132 | 106 | 81  | 247 | 205 | 177 | 141 | 112 | 86 | 56 | 42 |
| 80               | 316         | 76         | 316                           | 76  | 76 | 239 | 186 | 141 | 246 | 186 | 141 | 246 | 216 | 184 | 156          | 126 | 247 | 206 | 176 | 156 | 132 | 106 | 81  | 247 | 205 | 177 | 141 | 112 | 86 | 56 | 42 |
| 82               | 335         | 80         | 351                           | 84  | 84 | 246 | 206 | 148 | 309 | 264 | 206 | 317 | 235 | 190 | 137          | 252 | 206 | 176 | 156 | 132 | 106 | 81  | 252 | 217 | 173 | 141 | 112 | 86  | 56 | 42 |    |
| 84               | 351         | 80         | 369                           | 89  | 89 | 246 | 206 | 148 | 309 | 264 | 206 | 317 | 235 | 190 | 137          | 252 | 206 | 176 | 156 | 132 | 106 | 81  | 252 | 217 | 173 | 141 | 112 | 86  | 56 | 42 |    |
| 86               | 367         | 93         | 367                           | 93  | 93 | 246 | 206 | 148 | 309 | 264 | 206 | 317 | 235 | 190 | 137          | 252 | 206 | 176 | 156 | 132 | 106 | 81  | 252 | 217 | 173 | 141 | 112 | 86  | 56 | 42 |    |
| 88               | 367         | 93         | 367                           | 93  | 93 | 246 | 206 | 148 | 309 | 264 | 206 | 317 | 235 | 190 | 137          | 252 | 206 | 176 | 156 | 132 | 106 | 81  | 252 | 217 | 173 | 141 | 112 | 86  | 56 | 42 |    |
| 90               | 405         | 97         | 405                           | 97  | 97 | 246 | 206 | 148 | 309 | 264 | 206 | 317 | 235 | 190 | 137          | 252 | 206 | 176 | 156 | 132 | 106 | 81  | 252 | 217 | 173 | 141 | 112 | 86  | 56 | 42 |    |

| D.b.h.<br>inches |     | Butt<br>log<br>Top<br>log |    | Tree height in number of logs |     |     |     |     |     |     |     |     |     | Log position |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |
|------------------|-----|---------------------------|----|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|
|                  |     |                           |    | 9                             |     |     |     |     | 10  |     |     |     |     | 11           |     |     |     |     | 12  |     |     |     |     |     |     |     |     |    |    |    |    |    |
|                  |     |                           |    | 2                             | 3   | 4   | 5   | 6   | 7   | 8   | 2   | 3   | 4   | 5            | 6   | 7   | 8   | 9   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |    |    |    |    |    |
| 26               | 31  | 6                         | 8  | 28                            | 25  | 23  | 20  | 17  | 13  | 10  | 15  | 12  | 10  | 15           | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  |    |    |    |    |    |
| 28               | 36  | 9                         | 10 | 38                            | 35  | 32  | 27  | 23  | 18  | 13  | 10  | 15  | 12  | 10           | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12 |    |    |    |    |
| 30               | 41  | 12                        | 14 | 40                            | 36  | 31  | 27  | 23  | 18  | 13  | 10  | 15  | 12  | 10           | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12 |    |    |    |    |
| 32               | 47  | 14                        | 16 | 45                            | 41  | 35  | 30  | 24  | 19  | 16  | 13  | 10  | 15  | 12           | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15 | 12 |    |    |    |
| 34               | 54  | 16                        | 18 | 51                            | 47  | 40  | 34  | 28  | 20  | 15  | 12  | 10  | 15  | 12           | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15 | 12 |    |    |    |
| 36               | 61  | 18                        | 20 | 58                            | 52  | 45  | 38  | 31  | 23  | 18  | 13  | 10  | 15  | 12           | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15 | 12 |    |    |    |
| 38               | 68  | 20                        | 22 | 63                            | 58  | 52  | 45  | 38  | 31  | 23  | 18  | 13  | 10  | 15           | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10 | 15 | 12 |    |    |
| 40               | 76  | 22                        | 24 | 70                            | 64  | 58  | 52  | 45  | 38  | 26  | 18  | 13  | 10  | 15           | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10 | 15 | 12 |    |    |
| 42               | 84  | 24                        | 26 | 71                            | 65  | 59  | 53  | 47  | 38  | 28  | 18  | 13  | 10  | 15           | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10 | 15 | 12 |    |    |
| 44               | 93  | 26                        | 28 | 85                            | 78  | 71  | 61  | 52  | 42  | 32  | 21  | 16  | 13  | 10           | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12 | 10 | 15 | 12 |    |
| 46               | 102 | 28                        | 30 | 94                            | 86  | 78  | 67  | 57  | 47  | 36  | 26  | 18  | 13  | 10           | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12 | 10 | 15 | 12 |    |
| 48               | 111 | 25                        | 27 | 103                           | 94  | 86  | 74  | 63  | 51  | 38  | 26  | 18  | 13  | 10           | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12 | 10 | 15 | 12 |    |
| 50               | 121 | 28                        | 30 | 111                           | 102 | 93  | 80  | 68  | 56  | 42  | 30  | 21  | 16  | 13           | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15 | 12 | 10 | 15 | 12 |
| 52               | 131 | 30                        | 32 | 121                           | 111 | 101 | 87  | 74  | 60  | 45  | 32  | 21  | 16  | 13           | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15 | 12 | 10 | 15 | 12 |
| 54               | 141 | 33                        | 35 | 130                           | 120 | 109 | 93  | 79  | 65  | 49  | 32  | 21  | 16  | 13           | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15 | 12 | 10 | 15 | 12 |
| 56               | 153 | 36                        | 38 | 142                           | 130 | 118 | 101 | 86  | 70  | 54  | 32  | 20  | 16  | 13           | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15 | 12 | 10 | 15 | 12 |
| 58               | 165 | 38                        | 40 | 151                           | 139 | 126 | 109 | 94  | 76  | 58  | 32  | 21  | 16  | 13           | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15 | 12 | 10 | 15 | 12 |
| 60               | 176 | 41                        | 44 | 162                           | 149 | 135 | 117 | 101 | 82  | 63  | 32  | 21  | 16  | 13           | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15 | 12 | 10 | 15 | 12 |
| 62               | 188 | 44                        | 47 | 173                           | 159 | 145 | 125 | 108 | 88  | 67  | 32  | 21  | 16  | 13           | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15 | 12 | 10 | 15 | 12 |
| 64               | 201 | 47                        | 51 | 185                           | 170 | 154 | 133 | 115 | 94  | 71  | 32  | 21  | 16  | 13           | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15  | 12  | 10  | 15 | 12 | 10 | 15 | 12 |
| 66               | 214 | 51                        | 54 | 198                           | 181 | 165 | 143 | 123 | 100 | 76  | 202 | 185 | 169 | 154          | 135 | 115 | 94  | 72  | 202 | 190 | 173 | 152 | 132 | 113 | 91  | 70  | 109 | 85 | 65 | 55 | 45 |    |
| 68               | 228 | 54                        | 57 | 210                           | 193 | 176 | 152 | 130 | 106 | 81  | 214 | 196 | 180 | 163          | 143 | 123 | 100 | 76  | 215 | 201 | 184 | 164 | 144 | 124 | 104 | 84  | 64  | 44 | 24 | 14 |    |    |
| 70               | 242 | 57                        | 61 | 223                           | 204 | 186 | 161 | 138 | 113 | 86  | 227 | 208 | 191 | 173          | 153 | 130 | 111 | 95  | 76  | 166 | 155 | 133 | 112 | 103 | 89  | 75  | 58  | 48 | 38 | 28 | 18 |    |
| 72               | 250 | 61                        | 64 | 230                           | 217 | 197 | 170 | 146 | 120 | 91  | 241 | 221 | 202 | 184          | 164 | 141 | 119 | 101 | 82  | 63  | 177 | 166 | 145 | 125 | 105 | 85  | 70  | 53 | 43 | 33 | 23 | 13 |
| 74               | 271 | 64                        | 67 | 249                           | 229 | 208 | 180 | 155 | 127 | 96  | 254 | 233 | 213 | 194          | 171 | 148 | 126 | 108 | 88  | 67  | 189 | 177 | 156 | 135 | 115 | 95  | 74  | 57 | 47 | 37 | 27 | 17 |
| 76               | 287 | 68                        | 72 | 264                           | 243 | 221 | 191 | 164 | 134 | 101 | 269 | 247 | 226 | 206          | 181 | 154 | 135 | 115 | 94  | 72  | 202 | 190 | 169 | 148 | 128 | 108 | 88  | 68 | 48 | 28 | 18 |    |
| 78               | 302 | 72                        | 76 | 279                           | 256 | 233 | 201 | 173 | 141 | 107 | 284 | 264 | 238 | 217          | 190 | 163 | 143 | 123 | 100 | 76  | 215 | 201 | 177 | 156 | 136 | 116 | 96  | 76 | 56 | 36 | 26 | 16 |
| 80               | 318 | 76                        | 80 | 293                           | 269 | 245 | 212 | 182 | 149 | 112 | 299 | 274 | 251 | 228          | 200 | 171 | 150 | 130 | 106 | 81  | 228 | 214 | 195 | 174 | 154 | 134 | 114 | 94 | 74 | 54 | 34 | 24 |
| 82               | 335 | 80                        | 84 | 308                           | 283 | 258 | 223 | 191 | 156 | 116 | 314 | 286 | 263 | 239          | 211 | 180 | 157 | 137 | 112 | 86  | 211 | 207 | 185 | 164 | 144 | 124 | 104 | 84 | 64 | 44 | 24 | 14 |
| 84               | 352 | 84                        | 88 | 324                           | 297 | 271 | 234 | 201 | 165 | 123 | 329 | 302 | 277 | 253          | 222 | 189 | 154 | 134 | 113 | 86  | 210 | 206 | 184 | 163 | 143 | 123 | 103 | 83 | 63 | 43 | 23 | 13 |
| 86               | 369 | 89                        | 93 | 341                           | 313 | 285 | 246 | 211 | 173 | 129 | 346 | 316 | 291 | 264          | 234 | 199 | 162 | 142 | 122 | 86  | 209 | 200 | 178 | 157 | 137 | 117 | 97  | 77 | 57 | 37 | 27 | 17 |
| 88               | 387 | 93                        | 97 | 357                           | 328 | 298 | 258 | 221 | 181 | 136 | 363 | 333 | 304 | 277          | 245 | 209 | 170 | 140 | 120 | 86  | 209 | 200 | 179 | 158 | 138 | 118 | 98  | 78 | 58 | 38 | 28 | 18 |
| 90               | 405 | 97                        | 97 | 374                           | 343 | 312 | 269 | 232 | 190 | 142 | 380 | 348 | 319 | 290          | 256 | 218 | 178 | 157 | 137 | 86  | 205 | 207 | 178 | 158 | 138 | 118 | 98  | 78 | 58 | 38 | 28 | 18 |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     | Log position |     |     |     |     |     |     |     |     |    |    |  |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|--|
|                  |             |            | 3                             |     |     |     | 4   |     |     |     | 5            |     |     |     | 6   |     |     |     | 7   |    |    |  |
|                  |             |            | 2                             | 2   | 3   | 2   | 3   | 2   | 3   | 4   | 2            | 3   | 4   | 2   | 3   | 4   | 5   | 2   | 3   | 4  | 5  |  |
| 12               | 6           | 2          | 4                             | 5   | 6   | 5   | 6   | 7   | 6   | 4   | 5            | 6   | 5   | 6   | 7   | 6   | 5   | 6   | 7   | 6  | 5  |  |
| 14               | 8           | 3          | 5                             | 7   | 8   | 6   | 7   | 9   | 7   | 5   | 6            | 7   | 9   | 10  | 8   | 6   | 5   | 6   | 7   | 6  | 5  |  |
| 16               | 11          | 3          | 9                             | 11  | 7   | 12  | 9   | 15  | 11  | 7   | 15           | 13  | 10  | 12  | 8   | 10  | 15  | 13  | 12  | 15 | 11 |  |
| 18               | 14          | 3          | 9                             | 11  | 13  | 9   | 15  | 11  | 7   | 15  | 19           | 16  | 10  | 12  | 8   | 10  | 16  | 19  | 17  | 17 | 12 |  |
| 20               | 17          | 4          | 11                            | 14  | 17  | 11  | 18  | 14  | 9   | 15  | 19           | 15  | 10  | 12  | 8   | 10  | 16  | 19  | 15  | 19 | 15 |  |
| 22               | 22          | 4          | 14                            | 17  | 20  | 14  | 22  | 17  | 11  | 23  | 19           | 15  | 10  | 12  | 8   | 10  | 16  | 19  | 15  | 19 | 15 |  |
| 24               | 27          | 5          | 17                            | 25  | 29  | 16  | 26  | 21  | 14  | 27  | 18           | 13  | 10  | 12  | 8   | 10  | 16  | 19  | 15  | 19 | 15 |  |
| 26               | 31          | 6          | 21                            | 25  | 29  | 19  | 31  | 24  | 16  | 32  | 27           | 20  | 15  | 13  | 10  | 12  | 8   | 10  | 16  | 19 | 15 |  |
| 28               | 37          | 8          | 21                            | 25  | 29  | 19  | 31  | 24  | 16  | 32  | 27           | 20  | 15  | 13  | 10  | 12  | 8   | 10  | 16  | 19 | 15 |  |
| 30               | 42          | 9          | 23                            | 33  | 36  | 28  | 36  | 28  | 19  | 37  | 32           | 24  | 17  | 15  | 13  | 10  | 12  | 8   | 10  | 16 | 19 |  |
| 32               | 48          | 11         | 38                            | 48  | 52  | 41  | 57  | 37  | 25  | 49  | 41           | 32  | 23  | 20  | 18  | 15  | 13  | 10  | 12  | 8  | 10 |  |
| 34               | 55          | 12         | 43                            | 50  | 52  | 44  | 53  | 49  | 36  | 55  | 47           | 36  | 25  | 23  | 20  | 18  | 15  | 13  | 10  | 12 | 8  |  |
| 36               | 62          | 14         | 49                            | 53  | 59  | 46  | 53  | 46  | 33  | 62  | 52           | 40  | 29  | 63  | 55  | 47  | 37  | 26  | 14  | 57 | 50 |  |
| 38               | 70          | 16         | 55                            | 57  | 59  | 51  | 53  | 56  | 40  | 58  | 45           | 36  | 32  | 30  | 28  | 26  | 24  | 22  | 20  | 18 | 15 |  |
| 40               | 78          | 18         | 61                            | 66  | 66  | 51  | 56  | 56  | 40  | 75  | 64           | 50  | 36  | 36  | 34  | 32  | 30  | 28  | 26  | 24 | 22 |  |
| 42               | 86          | 20         | 73                            | 73  | 81  | 63  | 83  | 71  | 55  | 86  | 76           | 66  | 50  | 40  | 36  | 34  | 32  | 30  | 28  | 26 | 24 |  |
| 44               | 95          | 22         | 86                            | 88  | 88  | 69  | 89  | 78  | 60  | 94  | 82           | 70  | 56  | 40  | 36  | 34  | 32  | 30  | 28  | 26 | 24 |  |
| 46               | 104         | 24         | 97                            | 97  | 97  | 75  | 53  | 100 | 85  | 66  | 103          | 90  | 76  | 61  | 48  | 36  | 34  | 32  | 30  | 28 | 26 |  |
| 48               | 114         | 27         | 105                           | 105 | 105 | 82  | 58  | 109 | 93  | 71  | 112          | 98  | 82  | 67  | 52  | 40  | 36  | 34  | 32  | 30 | 28 |  |
| 50               | 124         | 29         | 113                           | 113 | 113 | 68  | 63  | 117 | 100 | 77  | 121          | 105 | 88  | 72  | 56  | 42  | 30  | 28  | 26  | 24 | 22 |  |
| 52               | 133         | 31         | 123                           | 123 | 123 | 96  | 69  | 128 | 109 | 84  | 132          | 115 | 97  | 80  | 55  | 42  | 30  | 28  | 26  | 24 | 22 |  |
| 54               | 146         | 34         | 132                           | 132 | 132 | 104 | 74  | 138 | 117 | 91  | 141          | 124 | 104 | 85  | 60  | 45  | 32  | 30  | 28  | 26 | 24 |  |
| 56               | 157         | 36         | 143                           | 143 | 143 | 113 | 79  | 149 | 127 | 98  | 152          | 133 | 112 | 92  | 65  | 45  | 32  | 30  | 28  | 26 | 24 |  |
| 58               | 169         | 39         | 153                           | 153 | 153 | 120 | 85  | 159 | 136 | 105 | 163          | 145 | 120 | 98  | 70  | 55  | 42  | 30  | 28  | 26 | 24 |  |
| 60               | 181         | 42         | 161                           | 161 | 161 | 142 | 145 | 169 | 145 | 113 | 181          | 163 | 145 | 120 | 97  | 74  | 55  | 42  | 30  | 28 | 26 |  |
| 62               | 194         | 45         | 207                           | 199 | 192 | 165 | 165 | 192 | 165 | 128 | 199          | 174 | 156 | 136 | 118 | 94  | 74  | 55  | 42  | 30 | 28 |  |
| 64               | 221         | 48         | 221                           | 221 | 205 | 176 | 137 | 176 | 137 | 99  | 212          | 186 | 166 | 146 | 126 | 109 | 85  | 65  | 45  | 32 | 30 |  |
| 66               | 235         | 55         | 235                           | 235 | 205 | 176 | 137 | 205 | 176 | 99  | 217          | 186 | 165 | 145 | 125 | 105 | 85  | 65  | 45  | 32 | 30 |  |
| 68               | 248         | 60         | 181                           | 181 | 153 | 120 | 85  | 217 | 186 | 145 | 217          | 186 | 165 | 145 | 125 | 105 | 85  | 65  | 45  | 32 | 30 |  |
| 70               | 263         | 63         | 207                           | 199 | 192 | 165 | 165 | 209 | 165 | 128 | 207          | 175 | 153 | 136 | 118 | 94  | 74  | 55  | 42  | 30 | 28 |  |
| 72               | 278         | 67         | 221                           | 221 | 257 | 172 | 172 | 257 | 172 | 128 | 219          | 186 | 165 | 146 | 126 | 109 | 85  | 65  | 45  | 32 | 30 |  |
| 74               | 294         | 70         | 221                           | 221 | 272 | 233 | 182 | 233 | 182 | 131 | 219          | 196 | 174 | 156 | 136 | 118 | 94  | 74  | 55  | 42 | 30 |  |
| 76               | 311         | 74         | 235                           | 235 | 205 | 176 | 137 | 235 | 182 | 131 | 219          | 196 | 174 | 156 | 136 | 118 | 94  | 74  | 55  | 42 | 30 |  |
| 78               | 327         | 78         | 266                           | 266 | 230 | 196 | 154 | 257 | 201 | 145 | 209          | 176 | 153 | 136 | 118 | 94  | 74  | 55  | 42  | 30 | 28 |  |
| 80               | 343         | 82         | 307                           | 307 | 271 | 211 | 152 | 317 | 271 | 211 | 251          | 219 | 186 | 165 | 146 | 126 | 109 | 85  | 65  | 45 | 32 |  |
| 82               | 361         | 87         | 332                           | 332 | 304 | 221 | 160 | 332 | 284 | 221 | 265          | 231 | 196 | 174 | 156 | 136 | 118 | 94  | 74  | 55 | 42 |  |
| 84               | 379         | 91         | 349                           | 349 | 306 | 232 | 168 | 349 | 296 | 232 | 279          | 241 | 206 | 186 | 166 | 146 | 126 | 109 | 85  | 65 | 45 |  |
| 86               | 398         | 95         | 365                           | 365 | 312 | 212 | 176 | 374 | 312 | 212 | 311          | 279 | 241 | 207 | 186 | 166 | 146 | 126 | 109 | 85 | 65 |  |
| 88               | 416         | 100        | 311                           | 311 | 266 | 166 | 126 | 374 | 312 | 212 | 311          | 279 | 241 | 207 | 186 | 166 | 146 | 126 | 109 | 85 | 65 |  |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     |     |     | Log position | Gross Scribner Decimal C volume of 16-foot log |     |     |     |     |     |     |     |     |     |     |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                  |             |            | 9                             |     |     |     |     |     | 10  |     |     |     |     |     |              |  |     |     |     |     |     |     |     |     |     |     |
|                  |             |            | 2                             | 3   | 4   | 5   | 6   | 7   | 8   | 2   | 3   | 4   | 5   | 6   | 7            | 8  | 9   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |
| 26               | 31          | 6          | 28                            | 26  | 24  | 20  | 17  | 14  | 11  | 11  | 10  | 12  | 11  | 10  | 9            | 8  | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   | 0   |     |
| 28               | 37          | 8          | 34                            | 31  | 28  | 24  | 20  | 17  | 14  | 11  | 10  | 12  | 11  | 10  | 9            | 8  | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   | 0   |     |
| 30               | 42          | 9          | 39                            | 36  | 32  | 28  | 24  | 19  | 14  | 11  | 10  | 12  | 11  | 10  | 9            | 8  | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   | 0   |     |
| 32               | 48          | 11         | 51                            | 44  | 37  | 32  | 27  | 22  | 16  | 11  | 10  | 12  | 11  | 10  | 9            | 8  | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   | 0   |     |
| 34               | 55          | 12         | 51                            | 47  | 36  | 31  | 26  | 19  | 14  | 11  | 10  | 12  | 11  | 10  | 9            | 8  | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   | 0   |     |
| 36               | 62          | 14         | 57                            | 52  | 48  | 41  | 35  | 29  | 21  | 16  | 10  | 12  | 11  | 10  | 9            | 8  | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   | 0   |     |
| 38               | 70          | 16         | 65                            | 59  | 54  | 46  | 39  | 32  | 24  | 16  | 10  | 12  | 11  | 10  | 9            | 8  | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   | 0   |     |
| 40               | 78          | 18         | 72                            | 66  | 60  | 51  | 44  | 35  | 20  | 16  | 10  | 12  | 11  | 10  | 9            | 8  | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   | 0   |     |
| 42               | 86          | 20         | 80                            | 73  | 66  | 57  | 48  | 39  | 29  | 16  | 10  | 12  | 11  | 10  | 9            | 8  | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   | 0   |     |
| 44               | 95          | 22         | 88                            | 80  | 73  | 63  | 53  | 44  | 33  | 16  | 10  | 12  | 11  | 10  | 9            | 8  | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   | 0   |     |
| 46               | 104         | 24         | 96                            | 88  | 80  | 69  | 59  | 48  | 36  | 16  | 10  | 12  | 11  | 10  | 9            | 8  | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   | 0   |     |
| 48               | 114         | 27         | 105                           | 97  | 88  | 75  | 64  | 52  | 40  | 16  | 10  | 12  | 11  | 10  | 9            | 8  | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   | 0   |     |
| 50               | 124         | 29         | 114                           | 105 | 96  | 82  | 70  | 57  | 43  | 16  | 10  | 12  | 11  | 10  | 9            | 8  | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   | 0   |     |
| 52               | 133         | 31         | 123                           | 113 | 103 | 88  | 75  | 62  | 46  | 16  | 10  | 12  | 11  | 10  | 9            | 8  | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   | 0   |     |
| 54               | 146         | 34         | 135                           | 124 | 113 | 96  | 82  | 66  | 46  | 16  | 10  | 12  | 11  | 10  | 9            | 8  | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   | 0   |     |
| 56               | 157         | 36         | 145                           | 133 | 121 | 104 | 89  | 72  | 54  | 16  | 10  | 12  | 11  | 10  | 9            | 8  | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   | 0   |     |
| 58               | 169         | 39         | 155                           | 142 | 130 | 112 | 96  | 79  | 60  | 16  | 10  | 12  | 11  | 10  | 9            | 8  | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   | 0   |     |
| 60               | 181         | 42         | 166                           | 153 | 139 | 120 | 103 | 84  | 64  | 16  | 10  | 12  | 11  | 10  | 9            | 8  | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   | 0   |     |
| 62               | 191         | 45         | 178                           | 163 | 148 | 110 | 90  | 68  | 48  | 16  | 10  | 12  | 11  | 10  | 9            | 8  | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   | 0   |     |
| 64               | 207         | 49         | 174                           | 159 | 137 | 118 | 96  | 73  | 54  | 16  | 10  | 12  | 11  | 10  | 9            | 8  | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   | 0   |     |
| 66               | 221         | 52         | 202                           | 186 | 169 | 146 | 125 | 102 | 77  | 54  | 16  | 10  | 12  | 11  | 10           | 9  | 8   | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   |     |
| 68               | 235         | 55         | 216                           | 198 | 180 | 156 | 134 | 109 | 82  | 54  | 16  | 10  | 12  | 11  | 10           | 9  | 8   | 7   | 6   | 5   | 4   | 3   | 2   | 1   | 0   |     |
| 70               | 248         | 60         | 229                           | 210 | 190 | 165 | 142 | 116 | 87  | 53  | 213 | 195 | 178 | 157 | 133          | 108  | 83  | 234 | 219 | 200 | 187 | 165 | 146 | 126 | 106 |     |
| 72               | 263         | 63         | 242                           | 222 | 202 | 175 | 150 | 122 | 92  | 56  | 226 | 207 | 188 | 165 | 141          | 115  | 88  | 247 | 231 | 212 | 198 | 175 | 154 | 134 | 112 |     |
| 74               | 278         | 67         | 256                           | 235 | 214 | 185 | 159 | 131 | 98  | 56  | 240 | 219 | 199 | 176 | 150          | 122  | 93  | 262 | 246 | 224 | 209 | 185 | 163 | 142 | 121 |     |
| 76               | 294         | 70         | 270                           | 248 | 226 | 195 | 168 | 146 | 108 | 138 | 275 | 253 | 231 | 210 | 185          | 158  | 129 | 99  | 276 | 259 | 237 | 223 | 196 | 172 | 150 | 129 |
| 78               | 311         | 74         | 282                           | 259 | 206 | 177 | 145 | 110 | 107 | 120 | 291 | 267 | 244 | 222 | 196          | 167  | 136 | 104 | 292 | 273 | 250 | 233 | 207 | 182 | 158 | 133 |
| 80               | 327         | 78         | 301                           | 276 | 251 | 217 | 187 | 152 | 115 | 306 | 281 | 257 | 234 | 205 | 176          | 143  | 110 | 307 | 288 | 264 | 246 | 217 | 191 | 167 | 139 | 106 |
| 82               | 343         | 82         | 316                           | 290 | 264 | 228 | 196 | 160 | 121 | 321 | 295 | 270 | 246 | 217 | 184          | 151  | 115 | 322 | 303 | 277 | 258 | 229 | 201 | 175 | 146 | 112 |
| 84               | 361         | 87         | 335                           | 305 | 278 | 240 | 206 | 169 | 127 | 338 | 310 | 284 | 258 | 228 | 194          | 159  | 122 | 339 | 318 | 291 | 272 | 241 | 212 | 184 | 154 | 118 |
| 86               | 379         | 91         | 349                           | 320 | 291 | 252 | 216 | 177 | 132 | 355 | 325 | 298 | 271 | 238 | 203          | 160  | 128 | 356 | 334 | 305 | 285 | 251 | 222 | 193 | 161 | 124 |
| 88               | 398         | 95         | 366                           | 336 | 306 | 264 | 227 | 186 | 140 | 372 | 342 | 312 | 284 | 250 | 214          | 175  | 134 | 373 | 350 | 320 | 299 | 265 | 233 | 203 | 170 | 130 |
| 90               | 416         | 100        | 383                           | 351 | 320 | 276 | 238 | 194 | 146 | 369 | 357 | 327 | 297 | 263 | 224          | 182  | 140 | 390 | 366 | 335 | 313 | 277 | 244 | 212 | 177 | 136 |

| D. b. h.<br>inches                              | Butt<br>log | Top<br>log | Tree height in number of logs |     |    |     |     |     |     |     |    |     |     |     | Log position |     |     |     |     |     |     | 8   |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---|-------------|------------|-------------------------------|-----|----|-----|-----|-----|-----|-----|----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|   |             |            | 3                             |     |    |     | 4   |     |     |     | 5  |     |     |     | 6            |     |     |     | 7   |     |     | 23  |     |     | 26  |     |     | 29  |     |     |     |     |     |     |     |
|   |             |            | 2                             | 2   | 3  | 2   | 3   | 4   | 2   | 3   | 4  | 2   | 3   | 4   | 2            | 3   | 4   | 2   | 3   | 4   | 2   | 3   | 4   | 2   | 3   | 4   | 2   | 3   | 4   |     |     |     |     |     |     |
| gross Scribner Decimal C volume of 16-foot logs |             |            |                               |     |    |     |     |     |     |     |    |     |     |     |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 12  | 5           | 3          | 5                             | 5   | 6  | 5   | 4   | 5   | 6   | 4   | 5  | 6   | 4   | 5   | 6            | 4   | 5   | 6   | 4   | 5   | 6   | 4   | 5   | 6   | 4   | 5   | 6   | 4   | 5   | 6   | 7   |     |     |     |     |
| 14  | 8           | 3          | 6                             | 6   | 9  | 6   | 5   | 7   | 6   | 5   | 7  | 6   | 5   | 7   | 6            | 5   | 7   | 6   | 5   | 7   | 6   | 5   | 7   | 6   | 5   | 7   | 6   | 5   | 7   | 6   | 7   |     |     |     |     |
| 16  | 11          | 3          | 8                             | 8   | 11 | 8   | 7   | 9   | 8   | 7   | 9  | 8   | 7   | 9   | 8            | 7   | 9   | 8   | 7   | 9   | 8   | 7   | 9   | 8   | 7   | 9   | 8   | 7   | 9   | 8   | 7   |     |     |     |     |
| 18  | 14          | 3          | 9                             | 9   | 11 | 8   | 10  | 6   | 11  | 10  | 6  | 11  | 10  | 6   | 11           | 10  | 6   | 11  | 10  | 6   | 11  | 10  | 6   | 11  | 10  | 6   | 11  | 10  | 6   | 11  | 10  |     |     |     |     |
| 20  | 18          | 4          | 11                            | 11  | 14 | 9   | 15  | 11  | 8   | 15  | 11 | 8   | 15  | 11  | 8            | 15  | 11  | 8   | 15  | 11  | 8   | 15  | 11  | 8   | 15  | 11  | 8   | 15  | 11  | 8   | 15  |     |     |     |     |
| 22  | 22          | 5          | 12                            | 12  | 17 | 12  | 19  | 11  | 10  | 20  | 16 | 12  | 23  | 20  | 15           | 10  | 29  | 25  | 21  | 17  | 12  | 20  | 14  | 19  | 16  | 13  | 21  | 15  | 18  | 11  |     |     |     |     |     |
| 24  | 27          | 6          | 17                            | 21  | 14 | 22  | 16  | 12  | 27  | 21  | 15 | 28  | 24  | 18  | 13           | 34  | 29  | 25  | 21  | 17  | 12  | 20  | 14  | 19  | 16  | 13  | 21  | 15  | 18  | 11  |     |     |     |     |     |
| 26  | 32          | 6          | 22                            | 25  | 17 | 29  | 20  | 18  | 33  | 24  | 18 | 33  | 28  | 21  | 15           | 34  | 34  | 29  | 25  | 21  | 17  | 12  | 20  | 14  | 19  | 16  | 13  | 21  | 15  | 18  | 11  |     |     |     |     |
| 28  | 37          | 8          | 29                            | 31  | 20 | 31  | 24  | 18  | 33  | 24  | 18 | 33  | 28  | 21  | 15           | 34  | 34  | 29  | 25  | 21  | 17  | 12  | 20  | 14  | 19  | 16  | 13  | 21  | 15  | 18  | 11  |     |     |     |     |
| 30  | 44          | 9          | 34                            | 37  | 28 | 37  | 28  | 23  | 35  | 27  | 32 | 26  | 35  | 27  | 23           | 25  | 38  | 32  | 29  | 25  | 21  | 17  | 12  | 20  | 14  | 19  | 16  | 13  | 21  | 15  | 18  | 11  |     |     |     |
| 32  | 50          | 11         | 39                            | 39  | 32 | 37  | 32  | 26  | 47  | 37  | 32 | 36  | 50  | 42  | 30           | 57  | 57  | 37  | 26  | 58  | 51  | 42  | 34  | 56  | 56  | 47  | 38  | 27  | 34  | 31  | 23  | 26  |     |     |     |
| 34  | 57          | 13         | 44                            | 44  | 30 | 47  | 37  | 30  | 54  | 42  | 30 | 53  | 53  | 47  | 35           | 53  | 53  | 47  | 35  | 58  | 51  | 42  | 34  | 56  | 56  | 47  | 38  | 27  | 34  | 31  | 23  | 26  |     |     |     |
| 36  | 64          | 14         | 50                            | 50  | 35 | 54  | 42  | 36  | 60  | 47  | 35 | 60  | 60  | 53  | 43           | 67  | 67  | 53  | 43  | 68  | 61  | 53  | 45  | 66  | 66  | 56  | 47  | 38  | 27  | 34  | 31  | 23  | 26  |     |     |
| 38  | 72          | 16         | 56                            | 56  | 38 | 56  | 47  | 35  | 60  | 47  | 35 | 60  | 60  | 53  | 43           | 67  | 67  | 53  | 43  | 68  | 61  | 53  | 45  | 66  | 66  | 56  | 47  | 38  | 27  | 34  | 31  | 23  | 26  |     |     |
| 40  | 80          | 18         | 63                            | 63  | 53 | 75  | 59  | 44  | 82  | 64  | 54 | 86  | 72  | 56  | 44           | 97  | 97  | 81  | 71  | 98  | 80  | 71  | 62  | 92  | 77  | 62  | 77  | 62  | 56  | 43  | 39  | 29  | 23  | 15  |     |
| 42  | 89          | 20         | 75                            | 75  | 59 | 75  | 59  | 44  | 82  | 64  | 54 | 86  | 72  | 56  | 44           | 97  | 97  | 81  | 71  | 98  | 80  | 71  | 62  | 92  | 77  | 62  | 77  | 62  | 56  | 43  | 39  | 29  | 23  | 15  |     |
| 44  | 98          | 22         | 82                            | 82  | 64 | 82  | 64  | 54  | 91  | 71  | 59 | 94  | 80  | 62  | 54           | 106 | 106 | 91  | 80  | 107 | 92  | 81  | 71  | 106 | 92  | 81  | 71  | 106 | 92  | 81  | 71  | 106 | 92  | 81  |     |
| 46  | 107         | 24         | 91                            | 91  | 70 | 131 | 111 | 86  | 91  | 71  | 59 | 94  | 80  | 62  | 54           | 106 | 106 | 91  | 80  | 107 | 92  | 81  | 71  | 106 | 92  | 81  | 71  | 106 | 92  | 81  | 71  | 106 | 92  | 81  |     |
| 48  | 117         | 26         | 99                            | 99  | 76 | 112 | 121 | 93  | 99  | 77  | 55 | 103 | 91  | 75  | 61           | 152 | 152 | 130 | 115 | 156 | 136 | 130 | 115 | 93  | 66  | 158 | 158 | 132 | 115 | 93  | 66  | 158 | 158 | 132 | 115 |
| 50  | 127         | 29         | 108                           | 84  | 60 | 112 | 95  | 74  | 108 | 84  | 60 | 112 | 95  | 74  | 54           | 115 | 101 | 84  | 115 | 101 | 84  | 68  | 117 | 105 | 91  | 77  | 62  | 48  | 117 | 105 | 91  | 77  | 62  |     |     |
| 52  | 137         | 32         | 116                           | 91  | 64 | 120 | 102 | 79  | 116 | 91  | 64 | 120 | 102 | 79  | 58           | 126 | 108 | 91  | 113 | 108 | 91  | 83  | 126 | 108 | 91  | 77  | 62  | 48  | 126 | 108 | 91  | 77  | 62  |     |     |
| 54  | 149         | 35         | 126                           | 99  | 70 | 131 | 111 | 86  | 126 | 99  | 70 | 131 | 111 | 86  | 63           | 134 | 118 | 99  | 126 | 111 | 98  | 83  | 134 | 118 | 99  | 77  | 62  | 48  | 134 | 118 | 99  | 77  | 62  |     |     |
| 56  | 161         | 37         | 136                           | 107 | 76 | 112 | 121 | 93  | 136 | 107 | 76 | 112 | 121 | 93  | 68           | 135 | 127 | 107 | 127 | 107 | 87  | 92  | 135 | 127 | 107 | 92  | 87  | 72  | 135 | 127 | 107 | 92  | 87  |     |     |
| 58  | 173         | 40         | 146                           | 115 | 81 | 152 | 130 | 101 | 146 | 115 | 81 | 152 | 130 | 101 | 73           | 156 | 136 | 101 | 156 | 136 | 101 | 93  | 156 | 136 | 101 | 93  | 66  | 158 | 158 | 132 | 115 | 93  | 66  |     |     |
| 60  | 185         | 44         | 163                           | 108 | 87 | 163 | 108 | 78  | 163 | 108 | 87 | 163 | 108 | 78  | 68           | 168 | 107 | 87  | 168 | 107 | 87  | 71  | 171 | 152 | 132 | 114 | 91  | 69  | 171 | 152 | 132 | 114 | 91  |     |     |
| 62  | 198         | 47         | 175                           | 107 | 87 | 175 | 107 | 78  | 175 | 107 | 87 | 175 | 107 | 78  | 68           | 180 | 107 | 87  | 180 | 107 | 87  | 71  | 183 | 163 | 143 | 122 | 98  | 74  | 183 | 163 | 143 | 122 | 98  |     |     |
| 64  | 211         | 50         | 187                           | 107 | 89 | 199 | 170 | 131 | 187 | 107 | 89 | 199 | 170 | 131 | 95           | 204 | 167 | 131 | 191 | 167 | 131 | 82  | 195 | 174 | 154 | 130 | 108 | 74  | 195 | 174 | 154 | 130 | 108 |     |     |
| 66  | 225         | 54         | 199                           | 107 | 89 | 199 | 170 | 131 | 199 | 107 | 89 | 199 | 170 | 131 | 95           | 204 | 167 | 131 | 191 | 167 | 131 | 82  | 206 | 186 | 166 | 141 | 110 | 74  | 206 | 186 | 166 | 141 | 110 |     |     |
| 68  | 239         | 57         | 211                           | 107 | 89 | 211 | 107 | 89  | 211 | 107 | 89 | 211 | 107 | 89  | 81           | 216 | 107 | 89  | 216 | 107 | 89  | 82  | 216 | 107 | 89  | 82  | 74  | 111 | 84  | 114 | 111 | 84  |     |     |     |
| 70  | 254         | 61         | 225                           | 108 | 87 | 225 | 108 | 78  | 225 | 108 | 87 | 225 | 108 | 78  | 68           | 230 | 107 | 87  | 230 | 107 | 87  | 71  | 234 | 209 | 182 | 157 | 125 | 95  | 234 | 209 | 182 | 157 | 125 |     |     |
| 72  | 270         | 64         | 238                           | 107 | 87 | 238 | 107 | 78  | 238 | 107 | 87 | 238 | 107 | 78  | 68           | 247 | 107 | 87  | 247 | 107 | 87  | 71  | 253 | 225 | 193 | 167 | 133 | 102 | 253 | 225 | 193 | 167 | 133 |     |     |
| 74  | 284         | 68         | 251                           | 107 | 89 | 251 | 107 | 89  | 251 | 107 | 89 | 251 | 107 | 89  | 81           | 257 | 221 | 190 | 257 | 221 | 190 | 82  | 261 | 235 | 204 | 176 | 140 | 108 | 261 | 235 | 204 | 176 | 140 |     |     |
| 76  | 300         | 72         | 265                           | 107 | 89 | 265 | 107 | 89  | 265 | 107 | 89 | 265 | 107 | 89  | 81           | 272 | 227 | 197 | 272 | 227 | 197 | 82  | 276 | 248 | 218 | 187 | 157 | 126 | 276 | 248 | 218 | 187 | 157 |     |     |
| 78  | 316         | 76         | 279                           | 107 | 89 | 279 | 107 | 89  | 279 | 107 | 89 | 279 | 107 | 89  | 81           | 286 | 250 | 211 | 286 | 250 | 211 | 82  | 281 | 256 | 228 | 198 | 167 | 134 | 281 | 256 | 228 | 198 | 167 |     |     |
| 80  | 335         | 80         | 294                           | 106 | 81 | 301 | 106 | 81  | 294 | 106 | 81 | 294 | 106 | 81  | 81           | 302 | 264 | 223 | 181 | 302 | 264 | 223 | 82  | 307 | 275 | 239 | 206 | 165 | 127 | 307 | 275 | 239 | 206 | 165 |     |
| 82  | 351         | 85         | 310                           | 106 | 81 | 310 | 106 | 81  | 310 | 106 | 81 | 310 | 106 | 81  | 81           | 318 | 266 | 225 | 181 | 318 | 266 | 225 | 82  | 323 | 290 | 254 | 221 | 174 | 134 | 323 | 290 | 254 | 221 | 174 |     |
| 84  | 368         | 90         | 325                           | 106 | 81 | 325 | 106 | 81  | 325 | 106 | 81 | 325 | 106 | 81  | 81           | 333 | 266 | 225 | 181 | 333 | 266 | 225 | 82  | 339 | 304 | 264 | 228 | 182 | 140 | 339 | 304 | 264 | 228 | 182 |     |
| 86  | 387         | 93         | 342                           | 106 | 81 | 342 | 106 | 81  | 342 | 106 | 81 | 342 | 106 | 81  | 81           | 351 | 267 | 226 | 181 | 351 | 267 | 226 | 82  | 356 | 320 | 278 | 239 | 192 | 147 | 356 | 320 | 278 | 239 | 192 |     |
| 88  | 405         | 96         | 358                           | 106 | 81 | 358 | 106 | 81  | 358 | 106 | 81 | 358 | 106 | 81  | 81           | 367 | 267 | 226 | 181 | 367 | 267 | 226 | 82  | 373 | 335 | 290 | 250 | 201 | 155 | 373 | 335 | 290 | 250 | 201 |     |
| 90  | 426         | 101        | 375                           | 106 | 81 | 384 | 106 | 81  | 384 | 106 | 81 | 384 | 106 | 81  | 81           | 391 | 264 | 224 | 181 | 391 | 264 | 224 | 82  | 396 | 351 | 304 | 263 | 210 | 162 | 396 | 351 | 304 | 263 | 210 |     |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|
|                  |             |            | 9                             |     |     |     |     |     |     |    | 10 |    |    |    |    |    |    |    |
|                  |             |            | 2                             | 3   | 4   | 5   | 6   | 7   | 8   | 9  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  |
| Log position     |             |            |                               |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
| 26               | 32          | 6          | 29                            | 27  | 26  | 21  | 18  | 14  | 10  | 7  | 10 | 14 | 11 | 8  | 5  | 3  | 2  | 1  |
| 26               | 37          | 8          | 31                            | 29  | 24  | 21  | 17  | 13  | 10  | 7  | 10 | 14 | 11 | 8  | 5  | 3  | 2  | 1  |
| 30               | 32          | 9          | 40                            | 37  | 33  | 28  | 24  | 19  | 15  | 12 | 15 | 18 | 14 | 11 | 8  | 5  | 3  | 2  |
| 30               | 36          | 11         | 46                            | 42  | 38  | 33  | 28  | 22  | 18  | 15 | 18 | 22 | 19 | 14 | 11 | 8  | 5  | 3  |
| 34               | 34          | 13         | 52                            | 43  | 37  | 32  | 25  | 19  | 15  | 12 | 15 | 20 | 17 | 13 | 10 | 7  | 5  | 3  |
| 36               | 36          | 14         | 59                            | 54  | 49  | 42  | 37  | 30  | 22  | 19 | 15 | 20 | 17 | 13 | 10 | 7  | 5  | 3  |
| 36               | 72          | 10         | 60                            | 55  | 47  | 40  | 33  | 24  | 19  | 15 | 12 | 15 | 18 | 14 | 11 | 8  | 5  | 3  |
| 40               | 80          | 18         | 74                            | 67  | 61  | 53  | 45  | 37  | 27  | 20 | 17 | 20 | 16 | 13 | 10 | 7  | 5  | 3  |
| 40               | 80          | 20         | 82                            | 75  | 68  | 58  | 50  | 41  | 30  | 23 | 19 | 20 | 17 | 14 | 11 | 8  | 5  | 3  |
| 44               | 98          | 22         | 90                            | 82  | 75  | 64  | 55  | 45  | 33  | 26 | 21 | 24 | 19 | 16 | 13 | 10 | 7  | 5  |
| 44               | 107         | 24         | 99                            | 91  | 83  | 71  | 60  | 49  | 37  | 26 | 21 | 24 | 19 | 16 | 13 | 10 | 7  | 5  |
| 48               | 107         | 26         | 107                           | 98  | 90  | 77  | 66  | 54  | 41  | 30 | 23 | 26 | 21 | 18 | 15 | 12 | 9  | 6  |
| 50               | 127         | 29         | 117                           | 107 | 98  | 84  | 72  | 59  | 45  | 30 | 23 | 26 | 21 | 18 | 15 | 12 | 9  | 6  |
| 52               | 137         | 32         | 126                           | 116 | 106 | 91  | 77  | 63  | 47  | 30 | 23 | 26 | 21 | 18 | 15 | 12 | 9  | 6  |
| 54               | 149         | 35         | 138                           | 126 | 115 | 99  | 84  | 69  | 51  | 37 | 26 | 23 | 20 | 18 | 15 | 12 | 9  | 6  |
| 54               | 161         | 37         | 148                           | 136 | 124 | 107 | 92  | 75  | 56  | 36 | 26 | 23 | 20 | 18 | 15 | 12 | 9  | 6  |
| 56               | 173         | 40         | 159                           | 146 | 133 | 114 | 98  | 80  | 61  | 42 | 30 | 23 | 20 | 18 | 15 | 12 | 9  | 6  |
| 56               | 185         | 44         | 171                           | 153 | 143 | 123 | 106 | 86  | 64  | 44 | 30 | 23 | 20 | 18 | 15 | 12 | 9  | 6  |
| 60               | 198         | 47         | 183                           | 168 | 153 | 132 | 113 | 92  | 70  | 46 | 30 | 23 | 20 | 18 | 15 | 12 | 9  | 6  |
| 62               | 211         | 50         | 195                           | 179 | 163 | 144 | 121 | 99  | 73  | 51 | 36 | 26 | 23 | 20 | 18 | 15 | 12 | 9  |
| 64               | 225         | 54         | 208                           | 191 | 174 | 150 | 129 | 105 | 79  | 56 | 36 | 26 | 23 | 20 | 18 | 15 | 12 | 9  |
| 66               | 239         | 57         | 221                           | 202 | 185 | 159 | 137 | 112 | 83  | 57 | 36 | 26 | 23 | 20 | 18 | 15 | 12 | 9  |
| 68               | 245         | 61         | 234                           | 215 | 196 | 170 | 145 | 119 | 89  | 57 | 36 | 26 | 23 | 20 | 18 | 15 | 12 | 9  |
| 72               | 270         | 64         | 249                           | 228 | 206 | 180 | 150 | 126 | 95  | 60 | 36 | 26 | 23 | 20 | 18 | 15 | 12 | 9  |
| 74               | 283         | 68         | 241                           | 220 | 190 | 163 | 134 | 105 | 76  | 47 | 36 | 26 | 23 | 20 | 18 | 15 | 12 | 9  |
| 76               | 276         | 72         | 255                           | 233 | 201 | 173 | 144 | 105 | 76  | 47 | 36 | 26 | 23 | 20 | 18 | 15 | 12 | 9  |
| 78               | 292         | 76         | 292                           | 245 | 212 | 182 | 149 | 111 | 76  | 47 | 36 | 26 | 23 | 20 | 18 | 15 | 12 | 9  |
| 80               | 308         | 80         | 308                           | 283 | 258 | 223 | 192 | 156 | 117 | 76 | 47 | 36 | 26 | 23 | 20 | 18 | 15 | 12 |
| 82               | 325         | 85         | 325                           | 296 | 272 | 235 | 202 | 165 | 123 | 81 | 47 | 36 | 26 | 23 | 20 | 18 | 15 | 12 |
| 84               | 340         | 90         | 340                           | 313 | 285 | 247 | 211 | 173 | 129 | 81 | 47 | 36 | 26 | 23 | 20 | 18 | 15 | 12 |
| 86               | 358         | 93         | 358                           | 328 | 299 | 259 | 223 | 182 | 136 | 81 | 47 | 36 | 26 | 23 | 20 | 18 | 15 | 12 |
| 88               | 374         | 96         | 374                           | 344 | 313 | 271 | 233 | 191 | 143 | 81 | 47 | 36 | 26 | 23 | 20 | 18 | 15 | 12 |
| 90               | 393         | 101        | 393                           | 360 | 329 | 294 | 243 | 200 | 149 | 81 | 47 | 36 | 26 | 23 | 20 | 18 | 15 | 12 |



| D.b.h.<br>inches | Butt<br>log<br>top<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     | Log position |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------------|---------------------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|                  |                           |            | 9                             |     |     |     |     | 10  |     |     |     |     | 11           |     |     |     |     | 12  |     |     |     |     |     |     |     |     |    |
|                  |                           |            | 2                             | 3   | 4   | 5   | 6   | 7   | 8   | 2   | 3   | 4   | 5            | 6   | 7   | 8   | 9   | 2   | 3   | 4   | 5   | 6   | 7   | 8   |     |     |    |
| 24               | 27                        | 6          | 25                            | 23  | 21  | 18  | 16  | 12  | 9   | 85  | 78  | 71  | 65           | 56  | 48  | 39  | 30  | 123 | 115 | 105 | 96  | 90  | 79  | 70  | 61  | 51  | 38 |
| 26               | 33                        | 7          | 30                            | 27  | 25  | 21  | 18  | 14  | 11  | 96  | 88  | 80  | 78           | 68  | 58  | 47  | 36  | 133 | 124 | 114 | 106 | 94  | 82  | 72  | 59  | 55  | 42 |
| 26               | 39                        | 8          | 35                            | 32  | 30  | 25  | 21  | 17  | 13  | 103 | 91  | 86  | 75           | 64  | 52  | 39  | 113 | 105 | 96  | 90  | 79  | 70  | 61  | 51  | 38  | 30  |    |
| 30               | 45                        | 10         | 40                            | 36  | 34  | 29  | 25  | 20  | 15  | 123 | 112 | 103 | 94           | 80  | 75  | 64  | 52  | 123 | 115 | 105 | 98  | 86  | 76  | 66  | 56  | 46  | 33 |
| 32               | 51                        | 12         | 47                            | 43  | 39  | 34  | 29  | 23  | 17  | 103 | 96  | 86  | 78           | 68  | 58  | 47  | 36  | 133 | 124 | 114 | 106 | 94  | 82  | 72  | 59  | 55  | 42 |
| 34               | 58                        | 14         | 54                            | 49  | 45  | 38  | 33  | 26  | 19  | 103 | 96  | 86  | 78           | 68  | 58  | 47  | 36  | 133 | 123 | 115 | 106 | 94  | 82  | 72  | 59  | 55  | 42 |
| 36               | 66                        | 15         | 60                            | 55  | 50  | 43  | 37  | 30  | 22  | 103 | 94  | 86  | 75           | 64  | 52  | 39  | 113 | 105 | 96  | 90  | 79  | 70  | 61  | 51  | 38  | 30  |    |
| 36               | 74                        | 16         | 68                            | 62  | 56  | 48  | 41  | 34  | 25  | 112 | 103 | 94  | 86           | 75  | 64  | 52  | 39  | 113 | 105 | 96  | 90  | 79  | 70  | 61  | 51  | 38  | 30 |
| 40               | 82                        | 19         | 76                            | 69  | 63  | 54  | 46  | 37  | 28  | 123 | 112 | 103 | 93           | 82  | 69  | 56  | 43  | 123 | 115 | 105 | 98  | 86  | 76  | 66  | 56  | 46  | 33 |
| 42               | 91                        | 21         | 84                            | 77  | 70  | 60  | 51  | 41  | 31  | 123 | 121 | 110 | 100          | 88  | 75  | 61  | 46  | 133 | 124 | 114 | 106 | 94  | 82  | 72  | 59  | 55  | 42 |
| 44               | 100                       | 23         | 92                            | 85  | 77  | 66  | 56  | 48  | 38  | 123 | 120 | 109 | 90           | 82  | 67  | 51  | 45  | 135 | 123 | 115 | 106 | 94  | 82  | 72  | 59  | 55  | 42 |
| 46               | 110                       | 25         | 101                           | 93  | 84  | 72  | 61  | 50  | 41  | 123 | 111 | 102 | 92           | 80  | 68  | 57  | 45  | 135 | 123 | 115 | 107 | 95  | 83  | 73  | 63  | 53  | 43 |
| 48               | 120                       | 27         | 111                           | 102 | 92  | 79  | 67  | 55  | 41  | 112 | 103 | 94  | 86           | 75  | 64  | 52  | 39  | 167 | 156 | 147 | 137 | 126 | 116 | 105 | 91  | 75  | 57 |
| 50               | 130                       | 30         | 120                           | 111 | 101 | 86  | 74  | 60  | 50  | 123 | 112 | 103 | 93           | 82  | 69  | 56  | 43  | 123 | 115 | 105 | 98  | 86  | 76  | 66  | 56  | 46  | 33 |
| 52               | 141                       | 33         | 130                           | 120 | 109 | 93  | 80  | 65  | 55  | 123 | 121 | 110 | 100          | 88  | 75  | 61  | 46  | 133 | 124 | 114 | 106 | 94  | 82  | 72  | 59  | 55  | 42 |
| 54               | 153                       | 36         | 142                           | 130 | 118 | 101 | 86  | 71  | 53  | 123 | 120 | 109 | 90           | 82  | 67  | 51  | 45  | 135 | 123 | 115 | 106 | 94  | 82  | 72  | 59  | 55  | 42 |
| 56               | 165                       | 38         | 151                           | 139 | 126 | 109 | 94  | 76  | 58  | 123 | 111 | 102 | 92           | 80  | 68  | 57  | 45  | 135 | 123 | 115 | 107 | 95  | 83  | 73  | 63  | 53  | 43 |
| 58               | 177                       | 41         | 163                           | 149 | 136 | 117 | 102 | 62  | 63  | 123 | 112 | 103 | 95           | 77  | 59  | 47  | 36  | 133 | 123 | 113 | 108 | 96  | 84  | 74  | 64  | 54  | 44 |
| 60               | 190                       | 45         | 175                           | 160 | 146 | 126 | 109 | 88  | 67  | 178 | 163 | 149 | 136          | 120 | 102 | 83  | 63  | 179 | 168 | 153 | 143 | 126 | 111 | 96  | 81  | 61  | 41 |
| 62               | 203                       | 48         | 187                           | 172 | 156 | 135 | 116 | 95  | 72  | 191 | 175 | 160 | 148          | 128 | 109 | 89  | 68  | 191 | 180 | 164 | 153 | 135 | 119 | 96  | 81  | 61  | 41 |
| 64               | 217                       | 51         | 200                           | 184 | 167 | 147 | 124 | 102 | 77  | 204 | 187 | 171 | 155          | 137 | 117 | 95  | 73  | 204 | 192 | 175 | 164 | 145 | 127 | 111 | 93  | 73  | 53 |
| 66               | 231                       | 55         | 213                           | 195 | 177 | 153 | 132 | 108 | 81  | 217 | 199 | 181 | 165          | 146 | 124 | 100 | 77  | 217 | 204 | 186 | 173 | 153 | 135 | 119 | 98  | 75  | 55 |
| 68               | 245                       | 58         | 226                           | 207 | 189 | 163 | 141 | 115 | 67  | 230 | 211 | 193 | 177          | 155 | 132 | 108 | 82  | 231 | 217 | 198 | 185 | 164 | 145 | 127 | 104 | 80  | 60 |
| 70               | 261                       | 62         | 240                           | 220 | 201 | 174 | 149 | 122 | 91  | 245 | 224 | 205 | 187          | 164 | 141 | 114 | 88  | 245 | 230 | 211 | 190 | 174 | 153 | 133 | 111 | 85  | 65 |
| 72               | 270                       | 65         | 255                           | 234 | 214 | 185 | 156 | 129 | 96  | 259 | 238 | 218 | 198          | 175 | 152 | 128 | 88  | 260 | 244 | 223 | 208 | 184 | 163 | 142 | 119 | 90  | 65 |
| 74               | 280                       | 70         | 270                           | 248 | 225 | 195 | 167 | 137 | 102 | 275 | 252 | 230 | 210          | 185 | 157 | 128 | 98  | 275 | 258 | 236 | 221 | 195 | 172 | 152 | 132 | 101 | 80 |
| 76               | 297                       | 74         | 284                           | 261 | 238 | 206 | 176 | 144 | 108 | 289 | 265 | 243 | 221          | 195 | 166 | 135 | 104 | 290 | 272 | 249 | 232 | 206 | 181 | 157 | 132 | 101 | 80 |
| 78               | 300                       | 79         | 300                           | 275 | 251 | 217 | 186 | 152 | 114 | 305 | 280 | 250 | 233          | 206 | 175 | 142 | 110 | 306 | 287 | 263 | 245 | 217 | 191 | 166 | 139 | 100 | 80 |
| 80               | 313                       | 82         | 310                           | 290 | 264 | 228 | 197 | 160 | 120 | 321 | 295 | 270 | 246          | 217 | 185 | 150 | 115 | 322 | 303 | 277 | 258 | 229 | 201 | 175 | 146 | 112 | 80 |
| 82               | 316                       | 87         | 305                           | 295 | 279 | 251 | 206 | 169 | 126 | 338 | 311 | 286 | 259          | 228 | 196 | 158 | 121 | 339 | 318 | 291 | 272 | 241 | 212 | 184 | 154 | 118 | 80 |
| 84               | 318                       | 92         | 310                           | 321 | 292 | 253 | 217 | 177 | 134 | 356 | 326 | 298 | 272          | 239 | 205 | 167 | 128 | 357 | 335 | 306 | 286 | 253 | 221 | 190 | 162 | 124 | 80 |
| 86               | 316                       | 96         | 316                           | 336 | 306 | 295 | 227 | 186 | 139 | 372 | 344 | 313 | 284          | 251 | 214 | 175 | 134 | 374 | 350 | 321 | 299 | 265 | 233 | 202 | 170 | 130 | 80 |
| 88               | 315                       | 100        | 314                           | 352 | 321 | 278 | 238 | 195 | 147 | 390 | 359 | 328 | 298          | 263 | 225 | 183 | 141 | 392 | 368 | 336 | 314 | 278 | 244 | 213 | 178 | 136 | 80 |
| 90               | 315                       | 105        | 302                           | 369 | 337 | 291 | 250 | 204 | 153 | 409 | 375 | 343 | 313          | 276 | 236 | 192 | 147 | 380 | 355 | 329 | 291 | 256 | 223 | 187 | 143 | 103 | 80 |



| D.b.h.<br>inches                               | Butt<br>log<br>Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     | Log position |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--|---------------------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|  |                           | 9                             |     |     |     |     | 10  |     |     |     |     | 11           |     |     |     |     | 12  |     |     |     |     |     |     |     |     |
|  |                           | 2                             | 3   | 4   | 5   | 6   | 7   | 8   | 2   | 3   | 4   | 5            | 6   | 7   | 8   | 9   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |
| Gross Scirber Decimal C volume of 16-foot logs |                           |                               |     |     |     |     |     |     |     |     |     |              |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 24   | 29                        | 6                             | 26  | 24  | 22  | 18  | 15  | 12  | 9   | 27  | 28  | 28           | 25  | 20  | 15  | 11  | 27  | 30  | 30  | 30  | 30  | 30  | 30  | 30  | 30  |
| 26   | 34                        | 7                             | 31  | 28  | 26  | 22  | 18  | 15  | 11  | 34  | 34  | 34           | 34  | 30  | 24  | 19  | 14  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  |
| 28   | 39                        | 8                             | 36  | 33  | 30  | 26  | 22  | 18  | 14  | 37  | 37  | 37           | 37  | 33  | 27  | 21  | 14  | 37  | 37  | 37  | 37  | 37  | 37  | 37  | 37  |
| 30   | 46                        | 10                            | 42  | 39  | 35  | 30  | 25  | 20  | 15  | 40  | 40  | 40           | 40  | 35  | 29  | 24  | 19  | 40  | 40  | 40  | 40  | 40  | 40  | 40  | 40  |
| 32   | 53                        | 11                            | 48  | 44  | 40  | 34  | 29  | 23  | 18  | 45  | 45  | 45           | 45  | 40  | 34  | 29  | 24  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  |
| 34   | 60                        | 13                            | 55  | 50  | 46  | 40  | 35  | 29  | 23  | 50  | 50  | 50           | 50  | 45  | 39  | 34  | 29  | 50  | 50  | 50  | 50  | 50  | 50  | 50  | 50  |
| 36   | 67                        | 15                            | 62  | 57  | 52  | 47  | 42  | 37  | 31  | 52  | 52  | 52           | 52  | 47  | 42  | 37  | 31  | 52  | 52  | 52  | 52  | 52  | 52  | 52  | 52  |
| 38   | 75                        | 17                            | 70  | 64  | 58  | 53  | 48  | 43  | 37  | 54  | 54  | 54           | 54  | 49  | 44  | 39  | 33  | 54  | 54  | 54  | 54  | 54  | 54  | 54  | 54  |
| 40   | 84                        | 19                            | 78  | 71  | 65  | 55  | 47  | 42  | 37  | 58  | 58  | 58           | 58  | 53  | 48  | 43  | 37  | 58  | 58  | 58  | 58  | 58  | 58  | 58  | 58  |
| 42   | 93                        | 21                            | 86  | 79  | 61  | 52  | 42  | 37  | 32  | 67  | 67  | 67           | 67  | 62  | 57  | 52  | 47  | 67  | 67  | 67  | 67  | 67  | 67  | 67  | 67  |
| 44   | 102                       | 24                            | 94  | 87  | 79  | 68  | 58  | 47  | 35  | 90  | 88  | 80           | 73  | 64  | 59  | 54  | 49  | 90  | 84  | 84  | 84  | 84  | 84  | 84  | 84  |
| 46   | 112                       | 26                            | 104 | 95  | 87  | 74  | 64  | 52  | 38  | 105 | 96  | 88           | 80  | 71  | 60  | 55  | 50  | 104 | 91  | 86  | 86  | 86  | 86  | 86  | 86  |
| 48   | 123                       | 28                            | 113 | 104 | 95  | 81  | 70  | 56  | 42  | 115 | 105 | 97           | 88  | 77  | 66  | 53  | 48  | 106 | 92  | 87  | 87  | 87  | 87  | 87  | 87  |
| 50   | 133                       | 31                            | 123 | 112 | 103 | 88  | 75  | 61  | 45  | 125 | 114 | 104          | 95  | 83  | 70  | 58  | 53  | 125 | 117 | 107 | 100 | 88  | 77  | 67  | 56  |
| 52   | 145                       | 34                            | 134 | 123 | 112 | 96  | 82  | 67  | 57  | 135 | 124 | 113          | 103 | 90  | 77  | 63  | 58  | 136 | 128 | 117 | 109 | 90  | 84  | 73  | 62  |
| 54   | 157                       | 36                            | 144 | 132 | 120 | 105 | 89  | 74  | 54  | 147 | 135 | 123          | 112 | 98  | 84  | 68  | 52  | 148 | 138 | 126 | 118 | 104 | 91  | 80  | 69  |
| 56   | 169                       | 39                            | 155 | 142 | 130 | 112 | 97  | 79  | 59  | 158 | 145 | 133          | 121 | 106 | 91  | 74  | 56  | 159 | 149 | 136 | 127 | 112 | 99  | 87  | 71  |
| 58   | 181                       | 43                            | 168 | 153 | 140 | 120 | 104 | 85  | 62  | 171 | 156 | 143          | 130 | 114 | 97  | 79  | 60  | 171 | 160 | 146 | 136 | 121 | 106 | 92  | 78  |
| 60   | 194                       | 46                            | 179 | 161 | 150 | 129 | 111 | 92  | 68  | 183 | 167 | 153          | 139 | 123 | 105 | 85  | 65  | 183 | 172 | 157 | 146 | 129 | 114 | 100 | 83  |
| 62   | 208                       | 49                            | 192 | 176 | 160 | 138 | 118 | 98  | 73  | 195 | 179 | 164          | 150 | 131 | 112 | 91  | 69  | 196 | 184 | 168 | 157 | 139 | 122 | 107 | 89  |
| 64   | 222                       | 53                            | 205 | 188 | 170 | 150 | 128 | 104 | 78  | 209 | 191 | 175          | 159 | 140 | 120 | 97  | 74  | 209 | 196 | 179 | 167 | 148 | 130 | 111 | 95  |
| 66   | 237                       | 56                            | 218 | 200 | 182 | 157 | 136 | 111 | 83  | 222 | 204 | 186          | 170 | 149 | 127 | 104 | 79  | 223 | 209 | 191 | 178 | 158 | 138 | 121 | 101 |
| 68   | 252                       | 59                            | 232 | 213 | 194 | 167 | 140 | 118 | 89  | 236 | 217 | 198          | 181 | 159 | 136 | 110 | 84  | 237 | 222 | 203 | 189 | 166 | 147 | 129 | 108 |
| 70   | 267                       | 63                            | 246 | 226 | 206 | 178 | 153 | 125 | 94  | 251 | 230 | 210          | 191 | 169 | 144 | 117 | 90  | 252 | 236 | 216 | 201 | 178 | 157 | 136 | 87  |
| 72   | 283                       | 67                            | 261 | 239 | 218 | 189 | 162 | 133 | 99  | 266 | 244 | 223          | 203 | 178 | 152 | 124 | 95  | 257 | 250 | 228 | 213 | 189 | 166 | 144 | 121 |
| 74   | 300                       | 72                            | 276 | 253 | 231 | 200 | 170 | 140 | 104 | 281 | 258 | 236          | 215 | 188 | 160 | 131 | 101 | 282 | 264 | 242 | 225 | 199 | 175 | 153 | 128 |
| 76   | 315                       | 76                            | 286 | 268 | 241 | 211 | 180 | 149 | 110 | 297 | 272 | 249          | 227 | 200 | 170 | 139 | 106 | 297 | 279 | 256 | 238 | 211 | 186 | 162 | 135 |
| 78   | 334                       | 80                            | 307 | 282 | 257 | 222 | 191 | 156 | 117 | 313 | 287 | 263          | 239 | 210 | 180 | 147 | 111 | 314 | 294 | 279 | 251 | 222 | 195 | 171 | 149 |
| 80   | 350                       | 84                            | 324 | 297 | 271 | 234 | 201 | 165 | 124 | 330 | 302 | 277          | 253 | 222 | 189 | 154 | 118 | 331 | 310 | 283 | 264 | 236 | 207 | 179 | 150 |
| 82   | 368                       | 89                            | 341 | 313 | 285 | 256 | 211 | 173 | 130 | 340 | 318 | 291          | 265 | 234 | 199 | 162 | 125 | 340 | 318 | 298 | 278 | 256 | 217 | 189 | 158 |
| 84   | 387                       | 93                            | 358 | 328 | 299 | 259 | 223 | 182 | 136 | 364 | 334 | 305          | 278 | 246 | 209 | 171 | 131 | 360 | 342 | 313 | 292 | 259 | 228 | 198 | 167 |
| 86   | 406                       | 98                            | 376 | 345 | 314 | 272 | 233 | 190 | 143 | 382 | 350 | 320          | 292 | 258 | 220 | 179 | 138 | 363 | 359 | 329 | 307 | 272 | 239 | 206 | 174 |
| 88   | 427                       | 102                           | 393 | 361 | 329 | 285 | 244 | 200 | 150 | 400 | 367 | 336          | 306 | 270 | 230 | 188 | 144 | 402 | 376 | 345 | 321 | 285 | 250 | 219 | 182 |
| 90   | 447                       | 107                           | 412 | 378 | 345 | 298 | 256 | 209 | 157 | 419 | 384 | 352          | 320 | 283 | 241 | 196 | 151 | 420 | 394 | 361 | 336 | 298 | 262 | 229 | 191 |

| D.b.h.<br>inches                                | Butt<br>log<br>Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     |     |     | Log position |  |
|---|---------------------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|--|
|   |                           | 3                             |     |     | 4   |     |     | 5   |     |     | 6   |     |     |              |  |
|   |                           | 2                             | 2   | 3   | 2   | 3   | 4   | 2   | 3   | 4   | 5   | 6   | 7   |              |  |
| Gross Scribner Decimal C volume of 1cu-foot log |                           |                               |     |     |     |     |     |     |     |     |     |     |     |              |  |
| 12  | 6                         | 3                             | 5   | 4   | 7   | 6   | 5   | 14  | 11  | 9   | 6   | 10  | 15  | 27           |  |
| 14  | 9                         | 3                             | 6   | 5   | 10  | 8   | 7   | 17  | 14  | 11  | 8   | 13  | 17  | 20           |  |
| 16  | 12                        | 3                             | 8   | 10  | 12  | 10  | 7   | 20  | 15  | 13  | 9   | 15  | 23  | 25           |  |
| 18  | 15                        | 3                             | 10  | 12  | 15  | 10  | 9   | 21  | 18  | 13  | 12  | 18  | 21  | 16           |  |
| 20  | 19                        | 4                             | 13  | 15  | 20  | 15  | 11  | 25  | 21  | 16  | 12  | 23  | 28  | 10           |  |
| 22  | 24                        | 5                             | 15  | 19  | 23  | 15  | 13  | 29  | 26  | 20  | 14  | 23  | 32  | 12           |  |
| 24  | 29                        | 6                             | 19  | 23  | 27  | 18  | 16  | 30  | 30  | 23  | 16  | 26  | 32  | 11           |  |
| 26  | 35                        | 7                             | 23  | 27  | 31  | 21  | 18  | 35  | 30  | 23  | 16  | 36  | 33  | 14           |  |
| 28  | 41                        | 9                             | 31  | 31  | 34  | 26  | 18  | 35  | 30  | 23  | 16  | 36  | 33  | 19           |  |
| 30  | 47                        | 10                            | 37  | 37  | 40  | 31  | 21  | 41  | 35  | 27  | 19  | 42  | 37  | 14           |  |
| 32  | 51                        | 12                            | 42  | 42  | 45  | 35  | 25  | 47  | 40  | 30  | 22  | 49  | 35  | 17           |  |
| 34  | 61                        | 14                            | 48  | 48  | 51  | 40  | 28  | 53  | 46  | 35  | 25  | 55  | 32  | 20           |  |
| 36  | 69                        | 15                            | 54  | 54  | 59  | 46  | 32  | 61  | 52  | 39  | 29  | 63  | 37  | 22           |  |
| 38  | 78                        | 17                            | 61  | 61  | 65  | 51  | 36  | 68  | 58  | 44  | 32  | 70  | 49  | 26           |  |
| 40  | 86                        | 20                            | 68  | 68  | 72  | 57  | 40  | 75  | 64  | 50  | 36  | 78  | 56  | 28           |  |
| 42  | 95                        | 22                            | 81  | 81  | 89  | 63  | 44  | 83  | 71  | 55  | 40  | 85  | 68  | 35           |  |
| 44  | 105                       | 24                            | 92  | 92  | 97  | 69  | 49  | 92  | 78  | 60  | 44  | 95  | 78  | 39           |  |
| 46  | 116                       | 27                            | 106 | 106 | 111 | 76  | 54  | 101 | 86  | 67  | 48  | 104 | 82  | 50           |  |
| 48  | 126                       | 29                            | 106 | 106 | 111 | 91  | 59  | 111 | 94  | 73  | 53  | 116 | 90  | 59           |  |
| 50  | 137                       | 32                            | 116 | 90  | 121 | 103 | 79  | 57  | 123 | 108 | 91  | 73  | 52  | 47           |  |
| 52  | 148                       | 34                            | 125 | 99  | 132 | 111 | 86  | 62  | 134 | 117 | 99  | 80  | 57  | 50           |  |
| 54  | 160                       | 37                            | 135 | 107 | 141 | 121 | 93  | 67  | 145 | 127 | 106 | 86  | 62  | 53           |  |
| 56  | 174                       | 40                            | 146 | 115 | 153 | 130 | 100 | 73  | 157 | 137 | 115 | 93  | 67  | 58           |  |
| 58  | 186                       | 44                            | 158 | 123 | 164 | 140 | 108 | 78  | 168 | 147 | 124 | 100 | 72  | 61           |  |
| 60  | 199                       | 47                            | 176 | 95  | 176 | 90  | 64  | 121 | 103 | 79  | 57  | 123 | 108 | 52           |  |
| 62  | 213                       | 50                            | 188 | 125 | 188 | 109 | 70  | 132 | 111 | 86  | 62  | 134 | 117 | 56           |  |
| 64  | 227                       | 54                            | 200 | 107 | 200 | 171 | 76  | 141 | 121 | 93  | 67  | 209 | 163 | 60           |  |
| 66  | 243                       | 57                            | 215 | 115 | 215 | 182 | 141 | 103 | 219 | 191 | 162 | 132 | 222 | 173          |  |
| 68  | 258                       | 61                            | 228 | 123 | 228 | 194 | 109 | 232 | 203 | 172 | 141 | 101 | 237 | 173          |  |
| 70  | 273                       | 65                            | 241 | 205 | 241 | 160 | 116 | 84  | 180 | 158 | 133 | 107 | 184 | 143          |  |
| 72  | 289                       | 70                            | 255 | 218 | 255 | 188 | 124 | 90  | 193 | 169 | 142 | 115 | 190 | 153          |  |
| 74  | 305                       | 74                            | 269 | 230 | 269 | 200 | 132 | 96  | 206 | 180 | 151 | 123 | 209 | 168          |  |
| 76  | 323                       | 78                            | 285 | 243 | 285 | 215 | 141 | 103 | 219 | 191 | 162 | 132 | 222 | 173          |  |
| 78  | 341                       | 82                            | 301 | 257 | 301 | 200 | 144 | 109 | 232 | 203 | 172 | 141 | 237 | 173          |  |
| 80  | 359                       | 86                            | 317 | 270 | 317 | 210 | 153 | 116 | 247 | 216 | 182 | 149 | 107 | 252          |  |
| 82  | 377                       | 91                            | 333 | 284 | 333 | 211 | 161 | 122 | 255 | 229 | 193 | 157 | 112 | 239          |  |
| 84  | 395                       | 95                            | 349 | 299 | 349 | 230 | 179 | 130 | 276 | 212 | 184 | 167 | 117 | 252          |  |
| 86  | 416                       | 100                           | 367 | 314 | 367 | 245 | 190 | 138 | 293 | 256 | 216 | 176 | 127 | 237          |  |
| 88  | 436                       | 105                           | 385 | 329 | 385 | 256 | 186 | 144 | 308 | 270 | 228 | 185 | 134 | 237          |  |
| 90  | 456                       | 110                           | 403 | 344 | 403 | 268 | 195 | 143 | 361 | 306 | 249 | 179 | 121 | 245          |  |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     |     |     | Log position | Gross Scribner Decimal C volume of 16-foot logs |     |     |     |     |     |     |     |     |     |    |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|                  |             |            | 9                             |     |     |     | 10  |     |     |     | 11  |     |     |     |              |   |     |     |     |     |     |     |     |     |     |    |
|                  |             |            | 2                             | 3   | 4   | 5   | 6   | 7   | 8   | 2   | 3   | 4   | 5   | 6   | 7            | 8   | 9   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10 |
| 24               | 29          | 6          | 26                            | 24  | 22  | 19  | 16  | 13  | 9   | 81  | 74  | 67  | 61  | 54  | 46           | 36  | 28  | 118 | 101 | 95  | 84  | 73  | 64  | 53  | 40  |    |
| 26               | 35          | 7          | 32                            | 29  | 27  | 23  | 19  | 15  | 11  | 89  | 82  | 75  | 68  | 59  | 51           | 41  | 31  | 120 | 110 | 103 | 91  | 80  | 69  | 57  | 44  |    |
| 28               | 41          | 9          | 37                            | 34  | 31  | 27  | 22  | 18  | 13  | 119 | 111 | 104 | 97  | 88  | 75           | 66  | 56  | 45  | 34  | 32  | 22  | 19  | 16  | 13  | 10  |    |
| 30               | 47          | 10         | 43                            | 39  | 36  | 31  | 26  | 21  | 16  | 126 | 117 | 108 | 99  | 90  | 82           | 72  | 62  | 50  | 38  | 34  | 31  | 28  | 25  | 22  | 19  | 16 |
| 32               | 51          | 12         | 49                            | 45  | 41  | 36  | 30  | 24  | 18  | 130 | 120 | 110 | 100 | 90  | 82           | 72  | 62  | 50  | 38  | 34  | 31  | 28  | 25  | 22  | 19  | 16 |
| 34               | 56          | 14         | 56                            | 51  | 47  | 40  | 34  | 28  | 20  | 136 | 126 | 116 | 106 | 96  | 86           | 76  | 66  | 56  | 45  | 34  | 31  | 28  | 25  | 22  | 19  | 16 |
| 36               | 61          | 15         | 61                            | 58  | 53  | 46  | 39  | 32  | 23  | 143 | 133 | 123 | 113 | 103 | 93           | 83  | 73  | 63  | 53  | 43  | 33  | 28  | 25  | 22  | 19  | 16 |
| 38               | 66          | 17         | 72                            | 65  | 60  | 51  | 43  | 35  | 26  | 118 | 108 | 98  | 88  | 79  | 67           | 54  | 42  | 31  | 28  | 25  | 22  | 19  | 16  | 13  | 10  |    |
| 40               | 80          | 20         | 88                            | 82  | 74  | 64  | 54  | 44  | 33  | 129 | 118 | 108 | 98  | 86  | 73           | 59  | 45  | 34  | 31  | 28  | 25  | 22  | 19  | 16  | 13  |    |
| 42               | 95          | 22         | 96                            | 89  | 81  | 69  | 59  | 48  | 36  | 150 | 138 | 126 | 114 | 101 | 86           | 70  | 56  | 45  | 34  | 31  | 28  | 25  | 22  | 19  | 16  |    |
| 44               | 105         | 24         | 106                           | 98  | 89  | 76  | 65  | 53  | 39  | 163 | 149 | 136 | 124 | 109 | 93           | 75  | 58  | 45  | 34  | 31  | 28  | 25  | 22  | 19  | 16  |    |
| 46               | 116         | 27         | 116                           | 107 | 97  | 83  | 71  | 58  | 44  | 175 | 160 | 146 | 133 | 117 | 100          | 81  | 62  | 47  | 34  | 31  | 28  | 25  | 22  | 19  | 16  |    |
| 48               | 126         | 29         | 126                           | 115 | 105 | 91  | 77  | 63  | 47  | 187 | 172 | 157 | 143 | 126 | 107          | 87  | 66  | 45  | 34  | 31  | 28  | 25  | 22  | 19  | 16  |    |
| 50               | 137         | 32         | 137                           | 127 | 115 | 98  | 84  | 68  | 51  | 196 | 184 | 170 | 156 | 135 | 112          | 93  | 70  | 49  | 34  | 31  | 28  | 25  | 22  | 19  | 16  |    |
| 52               | 148         | 34         | 147                           | 137 | 125 | 106 | 92  | 75  | 56  | 150 | 138 | 126 | 114 | 101 | 86           | 70  | 56  | 45  | 34  | 31  | 28  | 25  | 22  | 19  | 16  |    |
| 54               | 160         | 37         | 147                           | 135 | 123 | 106 | 92  | 75  | 56  | 163 | 149 | 136 | 124 | 109 | 93           | 75  | 58  | 45  | 34  | 31  | 28  | 25  | 22  | 19  | 16  |    |
| 56               | 171         | 40         | 159                           | 146 | 133 | 115 | 99  | 82  | 60  | 175 | 160 | 146 | 133 | 117 | 100          | 81  | 62  | 47  | 34  | 31  | 28  | 25  | 22  | 19  | 16  |    |
| 58               | 186         | 44         | 171                           | 157 | 143 | 124 | 106 | 87  | 65  | 187 | 172 | 157 | 143 | 126 | 107          | 87  | 66  | 45  | 34  | 31  | 28  | 25  | 22  | 19  | 16  |    |
| 60               | 199         | 47         | 183                           | 168 | 153 | 133 | 114 | 94  | 70  | 187 | 172 | 157 | 143 | 126 | 107          | 87  | 66  | 45  | 34  | 31  | 28  | 25  | 22  | 19  | 16  |    |
| 62               | 213         | 50         | 196                           | 180 | 164 | 141 | 122 | 100 | 75  | 200 | 183 | 168 | 153 | 135 | 112          | 93  | 71  | 56  | 45  | 34  | 31  | 28  | 25  | 22  | 19  |    |
| 64               | 227         | 54         | 209                           | 192 | 175 | 151 | 130 | 106 | 80  | 213 | 196 | 179 | 163 | 144 | 122          | 99  | 76  | 56  | 45  | 34  | 31  | 28  | 25  | 22  | 19  |    |
| 66               | 243         | 57         | 221                           | 205 | 187 | 162 | 139 | 113 | 86  | 228 | 209 | 191 | 171 | 154 | 131          | 106   | 81  | 229 | 215 | 196 | 183 | 162 | 142 | 121 | 103 |    |
| 68               | 258         | 61         | 238                           | 218 | 199 | 171 | 147 | 121 | 91  | 242 | 222 | 203 | 185 | 163 | 139          | 113   | 87  | 243 | 228 | 208 | 194 | 172 | 151 | 131 | 111 |    |
| 70               | 273         | 65         | 252                           | 231 | 211 | 182 | 156 | 129 | 97  | 257 | 235 | 215 | 197 | 173 | 147          | 120   | 92  | 258 | 232 | 211 | 182 | 160 | 140 | 117 | 99  |    |
| 72               | 289         | 70         | 267                           | 245 | 224 | 193 | 166 | 135 | 101 | 272 | 249 | 228 | 208 | 183 | 156          | 127   | 97  | 273 | 256 | 234 | 218 | 193 | 170 | 148 | 123 |    |
| 74               | 305         | 74         | 283                           | 259 | 236 | 204 | 176 | 143 | 107 | 287 | 264 | 241 | 219 | 194 | 165          | 134   | 103 | 288 | 270 | 248 | 231 | 201 | 183 | 161 | 140 |    |
| 76               | 323         | 78         | 299                           | 271 | 250 | 216 | 188 | 152 | 114 | 304 | 279 | 256 | 232 | 205 | 175          | 143   | 109 | 305 | 286 | 262 | 244 | 217 | 190 | 166 | 145 |    |
| 78               | 341         | 82         | 315                           | 289 | 264 | 228 | 195 | 160 | 120 | 320 | 294 | 269 | 246 | 216 | 184          | 150   | 115 | 321 | 302 | 276 | 258 | 238 | 209 | 175 | 156 |    |
| 80               | 359         | 86         | 332                           | 304 | 278 | 210 | 189 | 156 | 120 | 337 | 309 | 283 | 259 | 228 | 194          | 162   | 121 | 338 | 317 | 291 | 271 | 240 | 211 | 184 | 168 |    |
| 82               | 377         | 91         | 349                           | 320 | 292 | 252 | 216 | 177 | 133 | 355 | 325 | 298 | 271 | 240 | 194          | 162   | 128 | 356 | 334 | 312 | 285 | 252 | 222 | 193 | 162 |    |
| 84               | 396         | 95         | 366                           | 330 | 306 | 265 | 228 | 186 | 139 | 372 | 342 | 313 | 284 | 251 | 214          | 175   | 134 | 374 | 350 | 321 | 299 | 265 | 233 | 203 | 176 |    |
| 86               | 416         | 100        | 365                           | 353 | 322 | 279 | 239 | 196 | 147 | 391 | 359 | 330 | 300 | 264 | 225          | 184   | 141 | 393 | 368 | 337 | 315 | 279 | 245 | 212 | 177 |    |
| 88               | 436         | 105        | 370                           | 338 | 292 | 250 | 205 | 154 | 120 | 410 | 376 | 344 | 314 | 277 | 236          | 193   | 148 | 412 | 386 | 353 | 329 | 292 | 257 | 224 | 187 |    |
| 90               | 456         | 110        | 422                           | 387 | 353 | 306 | 262 | 215 | 161 | 429 | 394 | 360 | 328 | 290 | 247          | 201   | 155 | 430 | 404 | 370 | 345 | 306 | 269 | 234 | 196 |    |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     |     |     | Log position |     |     |     |     |     | C volume of 16-foot logs |     |     |     |     |     |     |     |     |     |     |     |   |   |   |   |   |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|---|---|---|---|
|                  |             |            | 3                             |     |     | 4   |     |     | 5   |     |     | 6   |     |     | 7            |     |     | 8   |     |     | 9                        |     |     | 10  |     |     |     |     |     |     |     |     |   |   |   |   |   |
|                  |             |            | 2                             | 2   | 3   | 2   | 3   | 4   | 2   | 3   | 4   | 2   | 3   | 4   | 2            | 3   | 4   | 2   | 3   | 4   | 5                        | 6   | 2   | 3   | 4   | 5   | 6   | 7   |     |     |     |     |   |   |   |   |   |
| 12               | 6           | 3          | 5                             | 6   | 7   | 5   | 4   | 6   | 8   | 6   | 5   | 10  | 8   | 6   | 11           | 9   | 6   | 14  | 11  | 9   | 11                       | 16  | 11  | 27  | 23  | 19  | 16  | 18  | 14  |     |     |     |   |   |   |   |   |
| 14               | 9           | 3          | 8                             | 6   | 10  | 7   | 12  | 8   | 13  | 10  | 7   | 16  | 13  | 9   | 17           | 15  | 8   | 14  | 18  | 11  | 13                       | 19  | 15  | 28  | 23  | 21  | 25  | 21  | 17  |     |     |     |   |   |   |   |   |
| 16               | 12          | 3          | 13                            | 16  | 10  | 15  | 19  | 12  | 21  | 16  | 10  | 21  | 16  | 10  | 21           | 18  | 9   | 14  | 17  | 12  | 17                       | 15  | 11  | 32  | 28  | 23  | 29  | 25  | 20  |     |     |     |   |   |   |   |   |
| 18               | 16          | 3          | 13                            | 16  | 12  | 15  | 19  | 16  | 25  | 20  | 13  | 26  | 22  | 17  | 17           | 12  | 17  | 15  | 17  | 33  | 31                       | 29  | 25  | 20  | 15  | 36  | 34  | 31  | 34  | 36  | 20  |     |   |   |   |   |   |
| 20               | 20          | 4          | 13                            | 16  | 10  | 16  | 19  | 12  | 21  | 16  | 10  | 21  | 16  | 10  | 21           | 18  | 9   | 14  | 17  | 12  | 17                       | 15  | 11  | 37  | 33  | 27  | 22  | 25  | 20  |     |     |     |   |   |   |   |   |
| 22               | 25          | 5          | 15                            | 19  | 16  | 19  | 23  | 16  | 28  | 19  | 16  | 31  | 26  | 20  | 31           | 26  | 20  | 17  | 12  | 17  | 15                       | 13  | 11  | 37  | 33  | 27  | 22  | 25  | 20  |     |     |     |   |   |   |   |   |
| 24               | 30          | 6          | 19                            | 24  | 32  | 22  | 35  | 27  | 35  | 27  | 19  | 36  | 31  | 24  | 36           | 31  | 24  | 17  | 17  | 37  | 33                       | 27  | 22  | 15  | 38  | 34  | 31  | 34  | 36  | 20  |     |     |   |   |   |   |   |
| 26               | 35          | 7          | 24                            | 32  | 32  | 32  | 32  | 32  | 35  | 27  | 19  | 36  | 31  | 24  | 36           | 31  | 24  | 17  | 17  | 37  | 33                       | 27  | 22  | 15  | 38  | 34  | 31  | 34  | 36  | 20  |     |     |   |   |   |   |   |
| 28               | 42          | 9          | 32                            | 55  | 50  | 53  | 53  | 53  | 53  | 53  | 41  | 29  | 55  | 50  | 53           | 40  | 45  | 36  | 22  | 17  | 12                       | 17  | 15  | 13  | 37  | 33  | 27  | 22  | 25  | 20  |     |     |   |   |   |   |   |
| 30               | 48          | 10         | 38                            | 60  | 40  | 32  | 22  | 22  | 42  | 36  | 22  | 42  | 36  | 22  | 42           | 36  | 22  | 42  | 36  | 22  | 17                       | 12  | 17  | 15  | 13  | 37  | 33  | 27  | 22  | 25  | 20  |     |   |   |   |   |   |
| 32               | 55          | 12         | 43                            | 53  | 50  | 53  | 53  | 53  | 53  | 53  | 53  | 41  | 29  | 55  | 50           | 53  | 40  | 45  | 36  | 22  | 17                       | 12  | 17  | 15  | 13  | 37  | 33  | 27  | 22  | 25  | 20  |     |   |   |   |   |   |
| 34               | 63          | 14         | 56                            | 56  | 56  | 57  | 60  | 56  | 60  | 56  | 56  | 60  | 56  | 56  | 60           | 56  | 56  | 56  | 56  | 56  | 56                       | 56  | 56  | 56  | 56  | 56  | 56  | 56  | 56  | 56  | 56  |     |   |   |   |   |   |
| 36               | 71          | 16         | 60                            | 60  | 62  | 62  | 62  | 62  | 67  | 52  | 37  | 70  | 59  | 45  | 33           | 72  | 62  | 52  | 42  | 30  | 73                       | 65  | 56  | 46  | 36  | 29  | 23  | 17  | 11  | 10  |     |     |   |   |   |   |   |
| 38               | 80          | 18         | 62                            | 62  | 62  | 62  | 62  | 62  | 67  | 52  | 37  | 70  | 59  | 45  | 33           | 72  | 62  | 52  | 42  | 30  | 73                       | 65  | 56  | 46  | 36  | 29  | 23  | 17  | 11  | 10  |     |     |   |   |   |   |   |
| 40               | 88          | 20         | 70                            | 47  | 75  | 56  | 41  | 77  | 66  | 51  | 37  | 80  | 70  | 58  | 47           | 33  | 81  | 72  | 63  | 54  | 43                       | 32  | 21  | 17  | 11  | 10  | 9   | 8   | 7   | 6   | 5   |     |   |   |   |   |   |
| 42               | 96          | 22         | 70                            | 47  | 83  | 64  | 45  | 86  | 73  | 56  | 40  | 88  | 77  | 64  | 52           | 37  | 90  | 80  | 69  | 59  | 47                       | 36  | 21  | 17  | 11  | 10  | 9   | 8   | 7   | 6   | 5   |     |   |   |   |   |   |
| 44               | 108         | 25         | 91                            | 91  | 91  | 91  | 91  | 91  | 91  | 91  | 91  | 91  | 91  | 91  | 91           | 91  | 91  | 91  | 91  | 91  | 91                       | 91  | 91  | 91  | 91  | 91  | 91  | 91  | 91  | 91  | 91  |     |   |   |   |   |   |
| 46               | 118         | 27         | 100                           | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100          | 100 | 100 | 100 | 100 | 100 | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |   |   |   |   |   |
| 48               | 129         | 30         | 109                           | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109          | 109 | 109 | 109 | 109 | 109 | 109                      | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 |     |     |   |   |   |   |   |
| 50               | 140         | 33         | 118                           | 92  | 95  | 120 | 108 | 83  | 61  | 126 | 110 | 92  | 75  | 53  | 128          | 115 | 99  | 85  | 66  | 51  | 36                       | 21  | 17  | 11  | 10  | 9   | 8   | 7   | 6   | 5   | 4   |     |   |   |   |   |   |
| 52               | 152         | 35         | 129                           | 101 | 72  | 133 | 114 | 88  | 64  | 137 | 120 | 101 | 82  | 58  | 140          | 125 | 108 | 93  | 74  | 56  | 40                       | 21  | 17  | 11  | 10  | 9   | 8   | 7   | 6   | 5   | 4   |     |   |   |   |   |   |
| 54               | 165         | 39         | 139                           | 109 | 77  | 145 | 123 | 95  | 69  | 149 | 130 | 109 | 88  | 63  | 151          | 135 | 117 | 101 | 81  | 61  | 42                       | 21  | 17  | 11  | 10  | 9   | 8   | 7   | 6   | 5   | 4   |     |   |   |   |   |   |
| 56               | 177         | 42         | 150                           | 117 | 83  | 155 | 133 | 103 | 103 | 155 | 133 | 103 | 103 | 103 | 155          | 133 | 103 | 103 | 103 | 103 | 103                      | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 |   |   |   |   |   |
| 58               | 191         | 45         | 161                           | 127 | 90  | 168 | 143 | 111 | 111 | 168 | 143 | 111 | 111 | 111 | 168          | 143 | 111 | 111 | 111 | 111 | 111                      | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 |   |   |   |   |   |
| 60               | 204         | 48         | 173                           | 136 | 96  | 180 | 153 | 119 | 86  | 185 | 161 | 136 | 110 | 79  | 188          | 168 | 146 | 120 | 100 | 76  | 51                       | 31  | 21  | 17  | 12  | 10  | 9   | 8   | 7   | 6   | 5   |     |   |   |   |   |   |
| 62               | 218         | 52         | 192                           | 163 | 127 | 192 | 163 | 127 | 92  | 197 | 172 | 155 | 118 | 84  | 200          | 180 | 156 | 134 | 107 | 81  | 56                       | 32  | 21  | 17  | 12  | 10  | 9   | 8   | 7   | 6   | 5   |     |   |   |   |   |   |
| 64               | 234         | 55         | 205                           | 175 | 136 | 218 | 186 | 155 | 105 | 221 | 194 | 164 | 134 | 105 | 205          | 186 | 155 | 134 | 105 | 81  | 56                       | 32  | 21  | 17  | 12  | 10  | 9   | 8   | 7   | 6   | 5   |     |   |   |   |   |   |
| 66               | 248         | 59         | 218                           | 186 | 155 | 218 | 186 | 155 | 105 | 221 | 194 | 164 | 134 | 105 | 205          | 186 | 155 | 134 | 105 | 81  | 56                       | 32  | 21  | 17  | 12  | 10  | 9   | 8   | 7   | 6   | 5   |     |   |   |   |   |   |
| 68               | 265         | 63         | 231                           | 198 | 154 | 232 | 198 | 154 | 112 | 219 | 176 | 155 | 127 | 105 | 73           | 234 | 189 | 156 | 134 | 105 | 81                       | 56  | 32  | 21  | 17  | 12  | 10  | 9   | 8   | 7   | 6   | 5   |   |   |   |   |   |
| 70               | 280         | 67         | 247                           | 210 | 163 | 247 | 210 | 163 | 119 | 253 | 221 | 187 | 152 | 109 | 257          | 231 | 201 | 172 | 138 | 105 | 81                       | 56  | 32  | 21  | 17  | 12  | 10  | 9   | 8   | 7   | 6   | 5   |   |   |   |   |   |
| 72               | 297         | 71         | 261                           | 222 | 173 | 276 | 219 | 183 | 134 | 268 | 234 | 198 | 160 | 115 | 272          | 244 | 212 | 183 | 146 | 111 | 81                       | 56  | 32  | 21  | 17  | 12  | 10  | 9   | 8   | 7   | 6   | 5   |   |   |   |   |   |
| 74               | 314         | 75         | 276                           | 236 | 183 | 291 | 219 | 183 | 134 | 276 | 241 | 208 | 170 | 122 | 289          | 259 | 225 | 194 | 155 | 117 | 81                       | 56  | 32  | 21  | 17  | 12  | 10  | 9   | 8   | 7   | 6   | 5   |   |   |   |   |   |
| 76               | 332         | 79         | 291                           | 219 | 183 | 308 | 263 | 204 | 149 | 299 | 262 | 221 | 179 | 129 | 305          | 273 | 237 | 204 | 164 | 124 | 81                       | 56  | 32  | 21  | 17  | 12  | 10  | 9   | 8   | 7   | 6   | 5   |   |   |   |   |   |
| 78               | 350         | 81         | 308                           | 263 | 204 | 324 | 277 | 215 | 157 | 303 | 281 | 246 | 200 | 143 | 329          | 303 | 264 | 227 | 182 | 138 | 105                      | 81  | 56  | 32  | 21  | 17  | 12  | 10  | 9   | 8   | 7   | 6   | 5 |   |   |   |   |
| 80               | 368         | 88         | 324                           | 277 | 215 | 340 | 290 | 226 | 165 | 349 | 306 | 259 | 210 | 150 | 355          | 319 | 277 | 239 | 191 | 145 | 105                      | 81  | 56  | 32  | 21  | 17  | 12  | 10  | 9   | 8   | 7   | 6   | 5 |   |   |   |   |
| 82               | 387         | 93         | 340                           | 290 | 226 | 358 | 306 | 238 | 173 | 367 | 328 | 272 | 210 | 159 | 374          | 335 | 292 | 257 | 201 | 153 | 105                      | 81  | 56  | 32  | 21  | 17  | 12  | 10  | 9   | 8   | 7   | 6   | 5 |   |   |   |   |
| 84               | 407         | 98         | 358                           | 306 | 238 | 375 | 320 | 249 | 182 | 385 | 337 | 285 | 231 | 166 | 394          | 351 | 306 | 263 | 211 | 160 | 105                      | 81  | 56  | 32  | 21  | 17  | 12  | 10  | 9   | 8   | 7   | 6   | 5 |   |   |   |   |
| 86               | 427         | 103        | 375                           | 320 | 249 | 394 | 336 | 261 | 191 | 404 | 354 | 299 | 243 | 175 | 412          | 351 | 274 | 200 | 143 | 306 | 263                      | 211 | 160 | 105 | 81  | 56  | 32  | 21  | 17  | 12  | 10  | 9   | 8 | 7 | 6 | 5 |   |
| 88               | 446         | 108        | 404                           | 351 | 274 | 423 | 370 | 313 | 254 | 183 | 430 | 366 | 306 | 231 | 175          | 412 | 351 | 274 | 200 | 143 | 306                      | 263 | 211 | 160 | 105 | 81  | 56  | 32  | 21  | 17  | 12  | 10  | 9 | 8 | 7 | 6 | 5 |
| 90               | 466         | 113        | 423                           | 370 | 313 | 423 | 370 | 313 | 254 | 183 | 430 | 366 | 306 | 231 | 175          | 412 | 351 | 274 | 200 | 143 | 306                      | 263 | 211 | 160 | 105 | 81  | 56  | 32  | 21  | 17  | 12  | 10  | 9 | 8 | 7 | 6 | 5 |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     |     |     | Log position |     |     |     |     |     |     |     |     |     |     |     |     |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                  |             |            | 9                             |     |     |     |     |     | 10  |     |     |     |     |     | 11           |     |     |     |     |     | 12  |     |     |     |     |     |     |
|                  |             |            | 2                             | 3   | 4   | 5   | 6   | 7   | 2   | 3   | 4   | 5   | 6   | 7   | 2            | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  |     |
| 24               | 30          | 6          | 28                            | 25  | 23  | 19  | 16  | 13  | 10  | 83  | 75  | 69  | 63  | 55  | 47           | 38  | 29  | 22  | 15  | 10  | 5   | 2   | 1   | 0   | 0   | 0   |     |
| 26               | 35          | 7          | 33                            | 30  | 27  | 23  | 20  | 18  | 15  | 91  | 84  | 77  | 68  | 57  | 46           | 35  | 25  | 18  | 11  | 10  | 5   | 2   | 1   | 0   | 0   | 0   |     |
| 28               | 42          | 9          | 38                            | 35  | 32  | 27  | 23  | 19  | 13  | 101 | 93  | 84  | 74  | 63  | 51           | 39  | 29  | 22  | 14  | 10  | 5   | 2   | 1   | 0   | 0   | 0   |     |
| 30               | 48          | 10         | 44                            | 40  | 37  | 32  | 27  | 22  | 16  | 149 | 137 | 101 | 93  | 84  | 74           | 63  | 51  | 39  | 29  | 22  | 14  | 10  | 5   | 2   | 1   | 0   |     |
| 32               | 55          | 12         | 51                            | 46  | 42  | 36  | 31  | 25  | 18  | 140 | 126 | 111 | 101 | 92  | 81           | 69  | 50  | 39  | 29  | 22  | 14  | 10  | 5   | 2   | 1   | 0   |     |
| 34               | 53          | 14         | 58                            | 53  | 48  | 35  | 30  | 29  | 21  | 141 | 135 | 111 | 101 | 92  | 81           | 69  | 50  | 39  | 29  | 22  | 14  | 10  | 5   | 2   | 1   | 0   |     |
| 36               | 61          | 16         | 65                            | 60  | 54  | 40  | 35  | 32  | 24  | 146 | 139 | 111 | 101 | 92  | 81           | 69  | 50  | 39  | 29  | 22  | 14  | 10  | 5   | 2   | 1   | 0   |     |
| 38               | 68          | 18         | 73                            | 67  | 61  | 52  | 45  | 36  | 27  | 145 | 139 | 111 | 101 | 92  | 81           | 69  | 50  | 39  | 29  | 22  | 14  | 10  | 5   | 2   | 1   | 0   |     |
| 40               | 88          | 20         | 81                            | 75  | 68  | 58  | 50  | 40  | 30  | 145 | 133 | 111 | 101 | 92  | 81           | 69  | 50  | 39  | 29  | 22  | 14  | 10  | 5   | 2   | 1   | 0   |     |
| 42               | 98          | 22         | 90                            | 82  | 75  | 64  | 55  | 45  | 33  | 149 | 137 | 111 | 101 | 92  | 81           | 69  | 50  | 39  | 29  | 22  | 14  | 10  | 5   | 2   | 1   | 0   |     |
| 44               | 108         | 25         | 99                            | 91  | 83  | 71  | 61  | 51  | 37  | 149 | 137 | 111 | 101 | 92  | 81           | 69  | 50  | 39  | 29  | 22  | 14  | 10  | 5   | 2   | 1   | 0   |     |
| 46               | 118         | 27         | 109                           | 99  | 91  | 80  | 73  | 60  | 40  | 140 | 134 | 111 | 101 | 92  | 81           | 69  | 50  | 39  | 29  | 22  | 14  | 10  | 5   | 2   | 1   | 0   |     |
| 48               | 129         | 30         | 119                           | 109 | 99  | 86  | 73  | 60  | 30  | 144 | 134 | 111 | 101 | 92  | 81           | 69  | 50  | 39  | 29  | 22  | 14  | 10  | 5   | 2   | 1   | 0   |     |
| 50               | 140         | 33         | 129                           | 118 | 107 | 92  | 79  | 64  | 48  | 130 | 120 | 109 | 101 | 92  | 81           | 69  | 50  | 39  | 29  | 22  | 14  | 10  | 5   | 2   | 1   | 0   |     |
| 52               | 152         | 35         | 150                           | 139 | 127 | 109 | 93  | 70  | 52  | 142 | 131 | 119 | 109 | 96  | 81           | 66  | 50  | 39  | 29  | 22  | 14  | 10  | 5   | 2   | 1   | 0   |     |
| 54               | 165         | 39         | 150                           | 150 | 136 | 118 | 101 | 81  | 57  | 154 | 141 | 129 | 117 | 104 | 88           | 71  | 55  | 45  | 35  | 25  | 15  | 10  | 5   | 2   | 1   | 0   |     |
| 56               | 177         | 42         | 176                           | 161 | 147 | 127 | 108 | 60  | 61  | 166 | 152 | 139 | 126 | 112 | 95           | 77  | 59  | 47  | 35  | 25  | 15  | 10  | 5   | 2   | 1   | 0   |     |
| 58               | 191         | 45         | 188                           | 173 | 158 | 136 | 116 | 95  | 71  | 191 | 176 | 161 | 141 | 120 | 102          | 83  | 64  | 45  | 35  | 25  | 15  | 10  | 5   | 2   | 1   | 0   |     |
| 60               | 204         | 48         | 201                           | 184 | 168 | 145 | 124 | 102 | 76  | 205 | 188 | 171 | 156 | 138 | 117          | 95  | 73  | 53  | 43  | 33  | 23  | 13  | 10  | 5   | 2   | 1   |     |
| 62               | 218         | 52         | 215                           | 197 | 180 | 156 | 133 | 109 | 81  | 219 | 201 | 184 | 167 | 147 | 125          | 102 | 78  | 58  | 48  | 38  | 28  | 18  | 10  | 5   | 2   | 1   |     |
| 64               | 234         | 55         | 229                           | 210 | 192 | 166 | 144 | 118 | 86  | 233 | 213 | 195 | 178 | 157 | 133          | 109 | 83  | 63  | 53  | 43  | 33  | 23  | 13  | 10  | 5   | 2   |     |
| 66               | 248         | 59         | 244                           | 204 | 176 | 151 | 123 | 92  | 208 | 227 | 208 | 189 | 167 | 142 | 116          | 89  | 69  | 59  | 49  | 39  | 29  | 19  | 10  | 5   | 2   | 1   |     |
| 68               | 265         | 63         | 258                           | 237 | 216 | 187 | 160 | 131 | 103 | 263 | 244 | 220 | 201 | 177 | 151          | 123 | 94  | 74  | 64  | 54  | 44  | 24  | 14  | 10  | 5   | 2   |     |
| 70               | 280         | 67         | 273                           | 251 | 229 | 198 | 169 | 138 | 103 | 278 | 255 | 233 | 212 | 187 | 160          | 130 | 100 | 79  | 69  | 59  | 49  | 39  | 29  | 19  | 10  | 5   |     |
| 72               | 297         | 71         | 290                           | 268 | 242 | 210 | 179 | 147 | 110 | 295 | 270 | 247 | 225 | 199 | 169          | 138 | 106 | 79  | 69  | 59  | 49  | 39  | 29  | 19  | 10  | 5   |     |
| 74               | 314         | 75         | 323                           | 296 | 256 | 221 | 189 | 155 | 116 | 311 | 285 | 261 | 237 | 209 | 179          | 155 | 122 | 90  | 80  | 70  | 60  | 50  | 40  | 30  | 20  | 10  |     |
| 76               | 332         | 79         | 350                           | 323 | 296 | 270 | 234 | 200 | 164 | 328 | 301 | 275 | 251 | 222 | 189          | 154 | 118 | 89  | 79  | 69  | 59  | 49  | 39  | 29  | 19  | 10  |     |
| 78               | 350         | 84         | 340                           | 312 | 284 | 246 | 210 | 173 | 129 | 345 | 317 | 290 | 264 | 233 | 199          | 162 | 124 | 94  | 84  | 74  | 64  | 54  | 44  | 34  | 24  | 14  |     |
| 80               | 368         | 88         | 357                           | 327 | 299 | 258 | 221 | 181 | 130 | 343 | 333 | 301 | 277 | 245 | 209          | 170 | 130 | 95  | 85  | 75  | 65  | 55  | 45  | 35  | 25  | 15  |     |
| 82               | 387         | 93         | 375                           | 344 | 314 | 272 | 233 | 191 | 143 | 382 | 350 | 320 | 292 | 258 | 220          | 179 | 137 | 98  | 88  | 78  | 68  | 58  | 48  | 38  | 28  | 18  |     |
| 84               | 407         | 98         | 427                           | 380 | 350 | 306 | 265 | 235 | 200 | 400 | 367 | 336 | 305 | 270 | 230          | 188 | 144 | 101 | 101 | 91  | 81  | 71  | 61  | 51  | 41  | 31  |     |
| 86               | 428         | 103        | 439                           | 379 | 346 | 299 | 256 | 210 | 157 | 420 | 385 | 353 | 321 | 283 | 242          | 197 | 151 | 121 | 101 | 91  | 81  | 71  | 61  | 51  | 41  | 31  |     |
| 88               | 448         | 108        | 443                           | 379 | 346 | 313 | 288 | 220 | 164 | 439 | 403 | 369 | 336 | 296 | 253          | 206 | 158 | 111 | 113 | 378 | 353 | 313 | 275 | 240 | 200 | 154 | 117 |
| 90               | 468         | 113        | 452                           | 396 | 362 | 313 | 288 | 220 | 164 | 439 | 403 | 369 | 336 | 296 | 253          | 206 | 158 | 111 | 113 | 378 | 353 | 313 | 275 | 240 | 200 | 154 | 117 |

| D.b.h.<br>inches | Bult<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     |     |    | Log position |     |    |    |    |     |     |     |    |    |    |    |    |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|--------------|-----|----|----|----|-----|-----|-----|----|----|----|----|----|
|                  |             |            | 5                             |     |     |     | 6   |     |     |     | 7   |     |     |    | 8            |     |    |    | 5  |     |     |     | 6  |    |    |    |    |
|                  |             |            | 3                             | 4   | 2   | 3   | 2   | 3   | 4   | 2   | 3   | 4   | 5   | 2  | 3            | 4   | 5  | 6  | 2  | 3   | 4   | 5   | 6  | 7  | 8  |    |    |
| 12               | 6           | 3          | 5                             | 6   | 4   | 8   | 6   | 5   | 6   | 5   | 14  | 12  | 9   | 6  | 28           | 25  | 21 | 18 | 14 | 21  | 22  | 17  | 12 | 11 | 11 |    |    |
| 14               | 9           | 3          | 7                             | 10  | 5   | 11  | 8   | 11  | 7   | 18  | 15  | 12  | 8   | 20 | 24           | 19  | 13 | 11 | 28 | 33  | 30  | 35  | 30 | 26 | 20 | 15 |    |
| 16               | 12          | 3          | 9                             | 13  | 8   | 14  | 11  | 13  | 8   | 18  | 13  | 9   | 6   | 27 | 24           | 28  | 22 | 16 | 28 | 30  | 35  | 30  | 35 | 30 | 26 | 20 |    |
| 18               | 16          | 3          | 11                            | 17  | 11  | 20  | 15  | 22  | 16  | 11  | 22  | 19  | 15  | 10 | 27           | 24  | 19 | 13 | 11 | 28  | 33  | 30  | 35 | 30 | 26 | 20 |    |
| 20               | 20          | 25         | 5                             | 20  | 15  | 24  | 16  | 26  | 20  | 13  | 23  | 17  | 12  | 10 | 27           | 24  | 28 | 22 | 16 | 28  | 33  | 30  | 35 | 30 | 26 | 20 |    |
| 22               | 25          | 6          | 20                            | 21  | 16  | 29  | 19  | 31  | 24  | 16  | 32  | 27  | 20  | 15 | 33           | 30  | 35 | 30 | 26 | 20  | 15  | 14  | 11 | 11 | 11 | 11 |    |
| 24               | 31          | 6          | 20                            | 24  | 16  | 29  | 19  | 31  | 24  | 16  | 32  | 27  | 20  | 15 | 33           | 30  | 35 | 30 | 26 | 20  | 15  | 14  | 11 | 11 | 11 | 11 |    |
| 26               | 36          | 8          | 24                            | 33  | 23  | 35  | 28  | 36  | 31  | 37  | 32  | 37  | 30  | 24 | 37           | 34  | 31 | 28 | 24 | 20  | 15  | 14  | 11 | 11 | 11 | 11 |    |
| 28               | 42          | 9          | 24                            | 33  | 23  | 35  | 28  | 36  | 31  | 37  | 32  | 37  | 30  | 24 | 37           | 34  | 31 | 28 | 24 | 20  | 15  | 14  | 11 | 11 | 11 | 11 |    |
| 30               | 49          | 11         | 44                            | 39  | 26  | 44  | 30  | 48  | 36  | 50  | 42  | 32  | 23  | 43 | 37           | 32  | 26 | 19 | 16 | 11  | 28  | 33  | 30 | 35 | 30 | 26 |    |
| 32               | 57          | 13         | 44                            | 51  | 34  | 51  | 34  | 54  | 43  | 56  | 48  | 37  | 27  | 58 | 51           | 45  | 37 | 29 | 21 | 16  | 11  | 28  | 33 | 30 | 35 | 30 | 26 |
| 34               | 64          | 14         | 51                            | 57  | 39  | 61  | 48  | 55  | 64  | 54  | 60  | 54  | 47  | 34 | 66           | 57  | 48 | 38 | 27 | 21  | 16  | 11  | 28 | 33 | 30 | 35 | 30 |
| 36               | 73          | 16         | 57                            | 61  | 57  | 59  | 64  | 68  | 54  | 68  | 71  | 60  | 47  | 34 | 73           | 64  | 54 | 43 | 30 | 27  | 21  | 16  | 11 | 28 | 33 | 30 | 35 |
| 38               | 81          | 18         | 57                            | 61  | 57  | 59  | 64  | 68  | 54  | 68  | 71  | 60  | 47  | 34 | 73           | 64  | 54 | 43 | 30 | 27  | 21  | 16  | 11 | 28 | 33 | 30 | 35 |
| 40               | 90          | 21         | 60                            | 66  | 60  | 67  | 66  | 75  | 75  | 82  | 82  | 84  | 76  | 60 | 88           | 82  | 71 | 60 | 48 | 34  | 34  | 32  | 27 | 21 | 16 | 11 | 11 |
| 42               | 100         | 23         | 60                            | 66  | 60  | 67  | 66  | 75  | 75  | 82  | 82  | 84  | 76  | 60 | 88           | 82  | 71 | 60 | 48 | 34  | 34  | 32  | 27 | 21 | 16 | 11 | 11 |
| 44               | 110         | 25         | 60                            | 66  | 60  | 67  | 66  | 75  | 75  | 82  | 82  | 84  | 76  | 60 | 88           | 82  | 71 | 60 | 48 | 34  | 34  | 32  | 27 | 21 | 16 | 11 | 11 |
| 46               | 121         | 28         | 60                            | 66  | 60  | 67  | 66  | 75  | 75  | 82  | 82  | 84  | 76  | 60 | 88           | 82  | 71 | 60 | 48 | 34  | 34  | 32  | 27 | 21 | 16 | 11 | 11 |
| 48               | 131         | 31         | 60                            | 66  | 60  | 67  | 66  | 75  | 75  | 82  | 82  | 84  | 76  | 60 | 88           | 82  | 71 | 60 | 48 | 34  | 34  | 32  | 27 | 21 | 16 | 11 | 11 |
| 50               | 144         | 33         | 65                            | 70  | 65  | 70  | 65  | 70  | 65  | 70  | 65  | 70  | 65  | 60 | 130          | 113 | 95 | 77 | 55 | 133 | 118 | 103 | 87 | 70 | 53 | 53 | 53 |
| 52               | 156         | 36         | 65                            | 70  | 65  | 70  | 65  | 70  | 65  | 70  | 65  | 70  | 65  | 60 | 130          | 113 | 95 | 77 | 55 | 133 | 118 | 103 | 87 | 70 | 53 | 53 | 53 |
| 54               | 168         | 39         | 65                            | 70  | 65  | 70  | 65  | 70  | 65  | 70  | 65  | 70  | 65  | 60 | 130          | 113 | 95 | 77 | 55 | 133 | 118 | 103 | 87 | 70 | 53 | 53 | 53 |
| 56               | 182         | 42         | 65                            | 70  | 65  | 70  | 65  | 70  | 65  | 70  | 65  | 70  | 65  | 60 | 130          | 113 | 95 | 77 | 55 | 133 | 118 | 103 | 87 | 70 | 53 | 53 | 53 |
| 58               | 195         | 45         | 65                            | 70  | 65  | 70  | 65  | 70  | 65  | 70  | 65  | 70  | 65  | 60 | 130          | 113 | 95 | 77 | 55 | 133 | 118 | 103 | 87 | 70 | 53 | 53 | 53 |
| 60               | 209         | 50         | 68                            | 74  | 68  | 74  | 68  | 74  | 68  | 74  | 68  | 74  | 68  | 60 | 130          | 113 | 95 | 77 | 55 | 133 | 118 | 103 | 87 | 70 | 53 | 53 | 53 |
| 62               | 224         | 53         | 73                            | 79  | 73  | 79  | 73  | 79  | 73  | 79  | 73  | 79  | 73  | 60 | 130          | 113 | 95 | 77 | 55 | 133 | 118 | 103 | 87 | 70 | 53 | 53 | 53 |
| 64               | 239         | 57         | 73                            | 79  | 73  | 79  | 73  | 79  | 73  | 79  | 73  | 79  | 73  | 60 | 130          | 113 | 95 | 77 | 55 | 133 | 118 | 103 | 87 | 70 | 53 | 53 | 53 |
| 66               | 254         | 60         | 76                            | 82  | 76  | 82  | 76  | 82  | 76  | 82  | 76  | 82  | 76  | 60 | 130          | 113 | 95 | 77 | 55 | 133 | 118 | 103 | 87 | 70 | 53 | 53 | 53 |
| 68               | 270         | 64         | 76                            | 82  | 76  | 82  | 76  | 82  | 76  | 82  | 76  | 82  | 76  | 60 | 130          | 113 | 95 | 77 | 55 | 133 | 118 | 103 | 87 | 70 | 53 | 53 | 53 |
| 70               | 287         | 68         | 76                            | 82  | 76  | 82  | 76  | 82  | 76  | 82  | 76  | 82  | 76  | 60 | 130          | 113 | 95 | 77 | 55 | 133 | 118 | 103 | 87 | 70 | 53 | 53 | 53 |
| 72               | 305         | 73         | 77                            | 82  | 77  | 82  | 77  | 82  | 77  | 82  | 77  | 82  | 77  | 60 | 130          | 113 | 95 | 77 | 55 | 133 | 118 | 103 | 87 | 70 | 53 | 53 | 53 |
| 74               | 321         | 76         | 77                            | 82  | 77  | 82  | 77  | 82  | 77  | 82  | 77  | 82  | 77  | 60 | 130          | 113 | 95 | 77 | 55 | 133 | 118 | 103 | 87 | 70 | 53 | 53 | 53 |
| 76               | 340         | 81         | 81                            | 82  | 81  | 82  | 81  | 82  | 81  | 82  | 81  | 82  | 81  | 60 | 130          | 113 | 95 | 77 | 55 | 133 | 118 | 103 | 87 | 70 | 53 | 53 | 53 |
| 78               | 358         | 86         | 86                            | 86  | 86  | 86  | 86  | 86  | 86  | 86  | 86  | 86  | 86  | 60 | 130          | 113 | 95 | 77 | 55 | 133 | 118 | 103 | 87 | 70 | 53 | 53 | 53 |
| 80               | 377         | 91         | 91                            | 95  | 95  | 100 | 100 | 105 | 105 | 110 | 110 | 115 | 115 | 60 | 130          | 113 | 95 | 77 | 55 | 133 | 118 | 103 | 87 | 70 | 53 | 53 | 53 |
| 82               | 397         | 95         | 95                            | 100 | 100 | 105 | 105 | 110 | 110 | 115 | 115 | 120 | 120 | 60 | 130          | 113 | 95 | 77 | 55 | 133 | 118 | 103 | 87 | 70 | 53 | 53 | 53 |
| 84               | 416         | 100        | 100                           | 105 | 105 | 110 | 110 | 115 | 115 | 120 | 120 | 125 | 125 | 60 | 130          | 113 | 95 | 77 | 55 | 133 | 118 | 103 | 87 | 70 | 53 | 53 | 53 |
| 86               | 437         | 105        | 105                           | 110 | 110 | 115 | 115 | 120 | 120 | 125 | 125 | 130 | 130 | 60 | 130          | 113 | 95 | 77 | 55 | 133 | 118 | 103 | 87 | 70 | 53 | 53 | 53 |
| 88               | 457         | 110        | 110                           | 115 | 115 | 120 | 120 | 125 | 125 | 130 | 130 | 135 | 135 | 60 | 130          | 113 | 95 | 77 | 55 | 133 | 118 | 103 | 87 | 70 | 53 | 53 | 53 |
| 90               | 479         | 116        | 116                           | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 60 | 130          | 113 | 95 | 77 | 55 | 133 | 118 | 103 | 87 | 70 | 53 | 53 | 53 |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     |     |     | Tree height in number of logs |     |     |     |    |    |    |    |    |    |    |   |   |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------------|-----|-----|-----|----|----|----|----|----|----|----|---|---|
|                  |             |            | 9                             |     |     |     |     |     | 10  |     |     |     |     |     | 11                            |     |     |     |    |    | 12 |    |    |    |    |   |   |
|                  |             |            | 2                             | 3   | 4   | 5   | 6   | 7   | 2   | 3   | 4   | 5   | 6   | 7   | 2                             | 3   | 4   | 5   | 6  | 7  | 8  | 9  | 10 | 11 | 12 |   |   |
| Log position     |             |            |                               |     |     |     |     |     |     |     |     |     |     |     |                               |     |     |     |    |    |    |    |    |    |    |   |   |
| 24               | 31          | 6          | 28                            | 25  | 23  | 20  | 17  | 13  | 10  | 16  | 12  | 10  | 8   | 6   | 5                             | 4   | 3   | 2   | 1  | 0  | 0  | 0  | 0  | 0  | 0  |   |   |
| 26               | 30          | 8          | 33                            | 31  | 28  | 24  | 20  | 16  | 12  | 10  | 8   | 6   | 5   | 4   | 3                             | 2   | 1   | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |   |
| 28               | 32          | 9          | 39                            | 36  | 32  | 28  | 24  | 19  | 14  | 12  | 10  | 8   | 6   | 5   | 4                             | 3   | 2   | 1   | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |   |
| 30               | 49          | 11         | 45                            | 42  | 38  | 32  | 28  | 22  | 16  | 12  | 10  | 8   | 6   | 5   | 4                             | 3   | 2   | 1   | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |   |
| 32               | 57          | 13         | 52                            | 48  | 43  | 37  | 32  | 25  | 19  | 16  | 12  | 10  | 8   | 6   | 5                             | 4   | 3   | 2   | 1  | 0  | 0  | 0  | 0  | 0  | 0  |   |   |
| 34               | 61          | 14         | 59                            | 54  | 49  | 42  | 37  | 29  | 22  | 19  | 16  | 12  | 10  | 8   | 6                             | 5   | 4   | 3   | 2  | 1  | 0  | 0  | 0  | 0  | 0  |   |   |
| 36               | 73          | 16         | 67                            | 61  | 56  | 50  | 48  | 41  | 33  | 24  | 21  | 18  | 15  | 12  | 10                            | 8   | 6   | 5   | 4  | 3  | 2  | 1  | 0  | 0  | 0  |   |   |
| 38               | 81          | 18         | 75                            | 68  | 62  | 53  | 46  | 38  | 27  | 21  | 18  | 15  | 12  | 10  | 8                             | 6   | 5   | 4   | 3  | 2  | 1  | 0  | 0  | 0  | 0  |   |   |
| 40               | 90          | 21         | 83                            | 76  | 69  | 60  | 51  | 44  | 31  | 24  | 20  | 17  | 13  | 10  | 8                             | 6   | 5   | 4   | 3  | 2  | 1  | 0  | 0  | 0  | 0  |   |   |
| 42               | 100         | 23         | 92                            | 85  | 77  | 66  | 56  | 46  | 35  | 28  | 22  | 19  | 16  | 12  | 10                            | 8   | 6   | 5   | 4  | 3  | 2  | 1  | 0  | 0  | 0  |   |   |
| 44               | 110         | 25         | 101                           | 93  | 85  | 73  | 62  | 51  | 38  | 30  | 25  | 20  | 17  | 14  | 11                            | 9   | 7   | 6   | 5  | 4  | 3  | 2  | 1  | 0  | 0  |   |   |
| 46               | 121         | 28         | 111                           | 102 | 93  | 80  | 68  | 56  | 42  | 33  | 24  | 20  | 17  | 14  | 11                            | 9   | 7   | 6   | 5  | 4  | 3  | 2  | 1  | 0  | 0  |   |   |
| 48               | 131         | 31         | 121                           | 111 | 101 | 87  | 74  | 61  | 46  | 33  | 23  | 19  | 16  | 13  | 10                            | 8   | 6   | 5   | 4  | 3  | 2  | 1  | 0  | 0  | 0  |   |   |
| 50               | 144         | 33         | 133                           | 122 | 111 | 95  | 81  | 60  | 49  | 34  | 23  | 17  | 12  | 10  | 8                             | 7   | 6   | 5   | 4  | 3  | 2  | 1  | 0  | 0  | 0  |   |   |
| 52               | 156         | 36         | 144                           | 132 | 121 | 103 | 89  | 72  | 54  | 35  | 23  | 17  | 12  | 10  | 8                             | 7   | 6   | 5   | 4  | 3  | 2  | 1  | 0  | 0  | 0  |   |   |
| 54               | 168         | 39         | 155                           | 142 | 129 | 111 | 96  | 79  | 59  | 38  | 26  | 17  | 12  | 10  | 8                             | 7   | 6   | 5   | 4  | 3  | 2  | 1  | 0  | 0  | 0  |   |   |
| 56               | 182         | 42         | 167                           | 153 | 139 | 120 | 104 | 85  | 64  | 44  | 26  | 17  | 12  | 10  | 8                             | 7   | 6   | 5   | 4  | 3  | 2  | 1  | 0  | 0  | 0  |   |   |
| 58               | 195         | 46         | 179                           | 165 | 150 | 130 | 111 | 90  | 67  | 183 | 167 | 153 | 139 | 123 | 101                           | 85  | 65  | 55  | 45 | 35 | 25 | 15 | 10 | 5  | 0  |   |   |
| 60               | 209         | 50         | 192                           | 177 | 161 | 139 | 119 | 97  | 74  | 196 | 179 | 165 | 150 | 132 | 112                           | 101 | 89  | 77  | 62 | 47 | 35 | 22 | 10 | 5  | 0  |   |   |
| 62               | 224         | 53         | 206                           | 189 | 172 | 149 | 128 | 105 | 79  | 210 | 193 | 177 | 160 | 141 | 123                           | 112 | 98  | 83  | 68 | 52 | 38 | 24 | 10 | 5  | 0  |   |   |
| 64               | 239         | 57         | 220                           | 202 | 184 | 158 | 136 | 111 | 83  | 224 | 205 | 187 | 171 | 150 | 128                           | 104 | 80  | 66  | 50 | 36 | 24 | 12 | 6  | 3  | 0  |   |   |
| 66               | 254         | 60         | 234                           | 215 | 190 | 169 | 145 | 120 | 90  | 239 | 219 | 200 | 182 | 161 | 137                           | 111 | 86  | 73  | 56 | 40 | 25 | 14 | 7  | 3  | 0  |   |   |
| 68               | 270         | 64         | 249                           | 228 | 208 | 179 | 154 | 127 | 95  | 253 | 232 | 212 | 194 | 171 | 155                           | 118 | 91  | 71  | 51 | 35 | 23 | 13 | 7  | 3  | 0  |   |   |
| 70               | 287         | 68         | 265                           | 243 | 221 | 191 | 164 | 134 | 100 | 269 | 247 | 226 | 200 | 181 | 154                           | 126 | 101 | 70  | 51 | 31 | 21 | 11 | 6  | 3  | 0  | 0 |   |
| 72               | 305         | 73         | 280                           | 257 | 235 | 203 | 174 | 142 | 106 | 285 | 262 | 240 | 218 | 192 | 164                           | 133 | 102 | 70  | 51 | 31 | 21 | 11 | 6  | 3  | 0  | 0 |   |
| 74               | 321         | 77         | 296                           | 272 | 248 | 214 | 184 | 150 | 112 | 301 | 276 | 253 | 231 | 203 | 173                           | 141 | 108 | 70  | 51 | 31 | 21 | 11 | 6  | 3  | 0  | 0 |   |
| 76               | 340         | 81         | 313                           | 287 | 262 | 227 | 194 | 159 | 119 | 319 | 292 | 267 | 243 | 215 | 183                           | 159 | 115 | 70  | 51 | 31 | 21 | 11 | 6  | 3  | 0  | 0 |   |
| 78               | 358         | 86         | 330                           | 302 | 276 | 239 | 204 | 167 | 125 | 335 | 308 | 281 | 250 | 226 | 193                           | 157 | 120 | 70  | 51 | 31 | 21 | 11 | 6  | 3  | 0  | 0 |   |
| 80               | 377         | 91         | 347                           | 319 | 291 | 252 | 215 | 177 | 132 | 354 | 324 | 297 | 270 | 238 | 203                           | 166 | 127 | 70  | 51 | 31 | 21 | 11 | 6  | 3  | 0  | 0 |   |
| 82               | 395         | 95         | 366                           | 336 | 306 | 275 | 238 | 196 | 139 | 372 | 342 | 312 | 284 | 251 | 214                           | 175 | 134 | 70  | 51 | 31 | 21 | 11 | 6  | 3  | 0  | 0 |   |
| 84               | 410         | 100        | 388                           | 352 | 321 | 278 | 238 | 195 | 136 | 390 | 358 | 328 | 298 | 269 | 235                           | 183 | 141 | 70  | 51 | 31 | 21 | 11 | 6  | 3  | 0  | 0 |   |
| 86               | 427         | 105        | 403                           | 370 | 338 | 292 | 250 | 205 | 153 | 410 | 370 | 342 | 313 | 277 | 236                           | 193 | 158 | 70  | 51 | 31 | 21 | 11 | 6  | 3  | 0  | 0 |   |
| 88               | 457         | 110        | 422                           | 387 | 353 | 305 | 262 | 215 | 161 | 429 | 393 | 360 | 328 | 290 | 267                           | 201 | 155 | 70  | 51 | 31 | 21 | 11 | 6  | 3  | 0  | 0 |   |
| 90               | 479         | 116        | 442                           | 405 | 370 | 320 | 274 | 225 | 169 | 449 | 412 | 378 | 343 | 304 | 271                           | 231 | 191 | 151 | 70 | 51 | 31 | 21 | 11 | 6  | 3  | 0 | 0 |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                  |             |            | 3                             |     |     | 4   |     |     | 5   |     |     | 6   |     |     | 7   |     |     |     |     |     |     |     |
|                  |             |            | 2                             | 2   | 3   | 2   | 3   | 4   | 2   | 3   | 4   | 5   | 2   | 3   | 4   | 5   | 6   | 2   | 3   | 4   | 5   |     |
| Log position     |             |            |                               |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 12               | 7           | 3          | 4                             | 5   | 4   | 6   | 5   | 6   | 8   | 6   | 5   | 15  | 12  | 9   | 6   | 11  | 16  | 21  | 25  | 29  | 25  |     |
| 14               | 10          | 3          | 6                             | 7   | 6   | 8   | 7   | 6   | 11  | 8   | 7   | 10  | 17  | 14  | 11  | 14  | 11  | 19  | 22  | 30  | 34  |     |
| 16               | 13          | 3          | 8                             | 10  | 7   | 10  | 8   | 7   | 14  | 11  | 10  | 7   | 23  | 19  | 15  | 10  | 14  | 11  | 18  | 22  | 30  |     |
| 18               | 17          | 3          | 10                            | 13  | 8   | 13  | 10  | 8   | 16  | 14  | 11  | 10  | 27  | 23  | 18  | 13  | 17  | 15  | 21  | 26  | 30  |     |
| 20               | 21          | 4          | 11                            | 16  | 10  | 16  | 11  | 9   | 17  | 14  | 9   | 18  | 16  | 12  | 8   | 16  | 11  | 19  | 22  | 30  | 36  |     |
| 22               | 26          | 5          | 17                            | 20  | 14  | 22  | 17  | 11  | 22  | 17  | 15  | 10  | 23  | 18  | 13  | 15  | 11  | 14  | 11  | 18  | 22  | 30  |
| 24               | 31          | 7          | 20                            | 25  | 16  | 27  | 20  | 14  | 27  | 21  | 15  | 13  | 33  | 27  | 21  | 15  | 28  | 25  | 22  | 30  | 36  | 30  |
| 26               | 37          | 8          | 29                            | 31  | 19  | 31  | 24  | 17  | 33  | 27  | 21  | 15  | 33  | 29  | 24  | 16  | 28  | 25  | 22  | 30  | 36  | 30  |
| 28               | 44          | 9          | 34                            | 34  | 24  | 37  | 28  | 20  | 38  | 32  | 25  | 18  | 39  | 34  | 28  | 23  | 16  | 28  | 25  | 22  | 30  | 36  |
| 30               | 51          | 11         | 40                            | 40  | 26  | 42  | 33  | 23  | 44  | 37  | 29  | 21  | 45  | 40  | 33  | 26  | 19  | 46  | 42  | 36  | 30  | 24  |
| 32               | 58          | 13         | 45                            | 45  | 31  | 49  | 38  | 26  | 51  | 43  | 33  | 24  | 52  | 46  | 38  | 31  | 21  | 53  | 48  | 44  | 35  | 27  |
| 34               | 66          | 15         | 52                            | 52  | 35  | 56  | 43  | 30  | 58  | 49  | 38  | 27  | 60  | 52  | 43  | 35  | 24  | 61  | 54  | 47  | 40  | 31  |
| 36               | 74          | 17         | 58                            | 58  | 39  | 62  | 49  | 34  | 65  | 55  | 42  | 31  | 67  | 58  | 49  | 39  | 28  | 68  | 60  | 53  | 45  | 35  |
| 38               | 83          | 19         | 65                            | 65  | 44  | 70  | 55  | 38  | 73  | 62  | 48  | 34  | 75  | 65  | 55  | 44  | 31  | 76  | 68  | 59  | 50  | 34  |
| 40               | 93          | 21         | 73                            | 49  | 78  | 61  | 43  | 82  | 69  | 53  | 38  | 84  | 73  | 61  | 49  | 35  | 84  | 76  | 66  | 56  | 45  | 34  |
| 42               | 102         | 23         | 73                            | 49  | 87  | 68  | 48  | 90  | 77  | 59  | 43  | 93  | 81  | 68  | 55  | 39  | 94  | 84  | 73  | 63  | 50  | 38  |
| 44               | 113         | 26         | 113                           | 26  | 96  | 75  | 52  | 100 | 84  | 65  | 47  | 102 | 89  | 75  | 61  | 43  | 104 | 93  | 80  | 69  | 55  | 42  |
| 46               | 123         | 28         | 105                           | 82  | 57  | 109 | 92  | 71  | 52  | 112 | 97  | 82  | 80  | 47  | 113 | 102 | 88  | 75  | 60  | 46  | 30  |     |
| 48               | 134         | 31         | 113                           | 89  | 62  | 118 | 100 | 77  | 56  | 121 | 106 | 89  | 71  | 51  | 123 | 110 | 96  | 81  | 65  | 50  | 35  |     |
| 50               | 147         | 34         | 125                           | 97  | 69  | 129 | 110 | 85  | 62  | 134 | 116 | 98  | 78  | 56  | 135 | 121 | 105 | 90  | 71  | 55  | 41  |     |
| 52               | 160         | 37         | 135                           | 106 | 75  | 140 | 120 | 92  | 67  | 144 | 126 | 106 | 86  | 61  | 147 | 132 | 115 | 97  | 77  | 59  | 47  |     |
| 54               | 173         | 40         | 147                           | 114 | 81  | 152 | 129 | 100 | 73  | 156 | 136 | 115 | 93  | 66  | 158 | 142 | 123 | 106 | 84  | 65  | 52  |     |
| 56               | 185         | 44         | 157                           | 123 | 87  | 163 | 139 | 108 | 78  | 168 | 147 | 123 | 100 | 71  | 170 | 152 | 132 | 114 | 91  | 70  | 50  |     |
| 58               | 199         | 47         | 169                           | 133 | 94  | 176 | 150 | 116 | 84  | 180 | 158 | 133 | 107 | 77  | 182 | 164 | 142 | 123 | 99  | 75  | 55  |     |
| 60               | 214         | 51         | 181                           | 142 | 101 | 188 | 161 | 124 | 90  | 193 | 169 | 143 | 115 | 83  | 196 | 176 | 152 | 132 | 105 | 81  | 51  |     |
| 62               | 229         | 54         | 202                           | 172 | 133 | 216 | 184 | 152 | 103 | 220 | 181 | 153 | 124 | 88  | 210 | 188 | 163 | 141 | 113 | 87  | 52  |     |
| 64               | 245         | 58         | 230                           | 217 | 192 | 261 | 216 | 184 | 112 | 234 | 205 | 173 | 144 | 102 | 224 | 201 | 175 | 151 | 120 | 92  | 52  |     |
| 66               | 260         | 61         | 305                           | 261 | 203 | 320 | 195 | 151 | 110 | 234 | 205 | 173 | 144 | 102 | 236 | 214 | 186 | 161 | 128 | 98  | 52  |     |
| 68               | 277         | 66         | 322                           | 275 | 207 | 161 | 117 | 250 | 184 | 150 | 107 | 250 | 218 | 184 | 150 | 107 | 254 | 228 | 198 | 170 | 136 | 103 |
| 70               | 294         | 71         | 258                           | 220 | 171 | 202 | 172 | 133 | 103 | 265 | 231 | 196 | 159 | 114 | 269 | 242 | 210 | 181 | 144 | 110 | 51  |     |
| 72               | 311         | 74         | 274                           | 234 | 182 | 290 | 217 | 192 | 139 | 281 | 216 | 208 | 168 | 122 | 286 | 250 | 223 | 192 | 154 | 116 | 51  |     |
| 74               | 330         | 79         | 305                           | 275 | 217 | 320 | 249 | 217 | 182 | 297 | 265 | 231 | 186 | 146 | 302 | 271 | 241 | 203 | 163 | 123 | 51  |     |
| 76               | 347         | 83         | 322                           | 275 | 214 | 321 | 261 | 203 | 147 | 313 | 274 | 232 | 188 | 135 | 319 | 286 | 248 | 214 | 172 | 130 | 51  |     |
| 78               | 366         | 88         | 349                           | 305 | 247 | 357 | 320 | 217 | 182 | 321 | 285 | 253 | 212 | 174 | 320 | 275 | 246 | 214 | 172 | 130 | 51  |     |
| 80               | 386         | 93         | 357                           | 305 | 247 | 375 | 320 | 217 | 182 | 321 | 285 | 253 | 212 | 174 | 320 | 275 | 246 | 214 | 172 | 130 | 51  |     |
| 82               | 406         | 98         | 393                           | 335 | 261 | 393 | 352 | 274 | 199 | 320 | 285 | 253 | 212 | 174 | 320 | 275 | 246 | 214 | 172 | 130 | 51  |     |
| 84               | 427         | 103        | 411                           | 352 | 274 | 411 | 374 | 274 | 199 | 320 | 285 | 253 | 212 | 174 | 320 | 275 | 246 | 214 | 172 | 130 | 51  |     |
| 86               | 447         | 108        | 429                           | 352 | 274 | 429 | 374 | 274 | 199 | 320 | 285 | 253 | 212 | 174 | 320 | 275 | 246 | 214 | 172 | 130 | 51  |     |
| 88               | 468         | 113        | 446                           | 352 | 274 | 446 | 374 | 274 | 199 | 320 | 285 | 253 | 212 | 174 | 320 | 275 | 246 | 214 | 172 | 130 | 51  |     |
| 90               | 490         | 118        | 451                           | 369 | 287 | 451 | 388 | 328 | 209 | 320 | 285 | 253 | 212 | 174 | 320 | 275 | 246 | 214 | 172 | 130 | 51  |     |

| D.b.h.<br>inches | Butt<br>log | Top<br>log | Tree height in number of logs |     |     |     |     |     |     |     |     |     | Log position |     |     |     |     |     |     |     | Gross Scribner Decimal C volume of 16-foot logs |     |     |     |     |     |     |    |    |    |    |    |  |
|------------------|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|----|----|----|----|----|--|
|                  |             |            | 9                             |     |     |     |     | 10  |     |     |     |     | 11           |     |     |     |     | 2   |     |     |   | 3   |     |     |     | 4   |     |    |    | 5  |    |    |  |
|                  |             |            | 2                             | 3   | 4   | 5   | 6   | 7   | 8   | 2   | 3   | 4   | 7            | 8   | 9   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 2   | 3   | 4   | 5   | 6  | 7  | 8  | 9  | 10 |  |
| 24               | 31          | 7          | 29                            | 20  | 24  | 20  | 17  | 14  | 11  | 11  | 14  | 11  | 11           | 11  | 11  | 11  | 11  | 11  | 11  | 11  | 11  | 11  | 11  | 11  | 11  | 11  | 11  | 11 | 11 | 11 | 11 |    |  |
| 26               | 37          | 8          | 34                            | 31  | 29  | 24  | 20  | 17  | 12  | 12  | 14  | 11  | 12           | 12  | 12  | 12  | 12  | 12  | 12  | 12  | 12  | 12  | 12  | 12  | 12  | 12  | 12  | 12 | 12 | 12 | 12 |    |  |
| 28               | 44          | 9          | 40                            | 37  | 33  | 28  | 24  | 19  | 15  | 15  | 14  | 12  | 15           | 15  | 15  | 15  | 15  | 15  | 15  | 15  | 15  | 15  | 15  | 15  | 15  | 15  | 15  | 15 | 15 | 15 | 15 |    |  |
| 30               | 51          | 11         | 46                            | 42  | 39  | 33  | 28  | 23  | 17  | 17  | 17  | 17  | 17           | 17  | 17  | 17  | 17  | 17  | 17  | 17  | 17  | 17  | 17  | 17  | 17  | 17  | 17  | 17 | 17 | 17 | 17 |    |  |
| 32               | 58          | 13         | 53                            | 49  | 45  | 38  | 32  | 26  | 20  | 20  | 20  | 20  | 20           | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20 | 20 | 20 | 20 |    |  |
| 34               | 66          | 15         | 61                            | 55  | 51  | 43  | 37  | 30  | 22  | 22  | 22  | 22  | 22           | 22  | 22  | 22  | 22  | 22  | 22  | 22  | 22  | 22  | 22  | 22  | 22  | 22  | 22  | 22 | 22 | 22 | 22 |    |  |
| 36               | 74          | 17         | 68                            | 62  | 57  | 49  | 41  | 34  | 25  | 25  | 25  | 25  | 25           | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25 | 25 | 25 | 25 |    |  |
| 38               | 83          | 19         | 76                            | 70  | 64  | 55  | 46  | 38  | 28  | 28  | 28  | 28  | 28           | 28  | 28  | 28  | 28  | 28  | 28  | 28  | 28  | 28  | 28  | 28  | 28  | 28  | 28  | 28 | 28 | 28 | 28 |    |  |
| 40               | 93          | 21         | 85                            | 78  | 71  | 61  | 52  | 42  | 32  | 32  | 32  | 32  | 32           | 32  | 32  | 32  | 32  | 32  | 32  | 32  | 32  | 32  | 32  | 32  | 32  | 32  | 32  | 32 | 32 | 32 | 32 |    |  |
| 42               | 102         | 23         | 94                            | 87  | 79  | 68  | 59  | 47  | 35  | 35  | 35  | 35  | 35           | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35 | 35 | 35 | 35 |    |  |
| 44               | 113         | 26         | 103                           | 96  | 87  | 75  | 62  | 52  | 39  | 39  | 39  | 39  | 39           | 39  | 39  | 39  | 39  | 39  | 39  | 39  | 39  | 39  | 39  | 39  | 39  | 39  | 39  | 39 | 39 | 39 | 39 |    |  |
| 46               | 123         | 29         | 114                           | 105 | 95  | 82  | 69  | 57  | 42  | 42  | 42  | 42  | 42           | 42  | 42  | 42  | 42  | 42  | 42  | 42  | 42  | 42  | 42  | 42  | 42  | 42  | 42  | 42 | 42 | 42 | 42 |    |  |
| 48               | 134         | 31         | 122                           | 113 | 103 | 89  | 76  | 62  | 47  | 47  | 47  | 47  | 47           | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47 | 47 | 47 | 47 |    |  |
| 50               | 147         | 34         | 135                           | 124 | 113 | 97  | 84  | 68  | 52  | 52  | 52  | 52  | 52           | 52  | 52  | 52  | 52  | 52  | 52  | 52  | 52  | 52  | 52  | 52  | 52  | 52  | 52  | 52 | 52 | 52 | 52 |    |  |
| 52               | 160         | 37         | 146                           | 134 | 122 | 106 | 92  | 74  | 56  | 56  | 56  | 56  | 56           | 56  | 56  | 56  | 56  | 56  | 56  | 56  | 56  | 56  | 56  | 56  | 56  | 56  | 56  | 56 | 56 | 56 | 56 |    |  |
| 54               | 173         | 40         | 159                           | 146 | 133 | 114 | 98  | 80  | 61  | 61  | 61  | 61  | 61           | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61 | 61 | 61 | 61 |    |  |
| 56               | 185         | 44         | 170                           | 156 | 142 | 123 | 107 | 86  | 66  | 66  | 66  | 66  | 66           | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 66 | 66 | 66 | 66 |    |  |
| 58               | 199         | 47         | 183                           | 168 | 153 | 132 | 114 | 94  | 71  | 71  | 71  | 71  | 71           | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71 | 71 | 71 | 71 |    |  |
| 60               | 214         | 51         | 197                           | 181 | 164 | 142 | 122 | 100 | 75  | 75  | 75  | 75  | 75           | 75  | 75  | 75  | 75  | 75  | 75  | 75  | 75  | 75  | 75  | 75  | 75  | 75  | 75  | 75 | 75 | 75 | 75 |    |  |
| 62               | 229         | 54         | 211                           | 191 | 176 | 152 | 132 | 107 | 80  | 215 | 197 | 180 | 164          | 145 | 125 | 100 | 77  | 216 | 202 | 185 | 172   | 153 | 134 | 117 | 97  | 76  | 60  | 44 | 29 | 13 |    |    |  |
| 64               | 245         | 58         | 225                           | 207 | 188 | 163 | 140 | 114 | 86  | 229 | 210 | 192 | 175          | 155 | 132 | 107 | 82  | 230 | 216 | 197 | 184   | 163 | 143 | 125 | 105 | 79  | 61  | 44 | 29 | 13 |    |    |  |
| 66               | 260         | 61         | 239                           | 220 | 200 | 173 | 148 | 122 | 92  | 244 | 224 | 204 | 186          | 164 | 140 | 117 | 87  | 245 | 229 | 210 | 196   | 173 | 152 | 132 | 111 | 85  | 60  | 44 | 29 | 13 |    |    |  |
| 68               | 277         | 66         | 255                           | 234 | 213 | 184 | 158 | 129 | 96  | 259 | 237 | 217 | 198          | 175 | 149 | 121 | 93  | 260 | 244 | 223 | 208   | 184 | 162 | 141 | 118 | 90  | 60  | 44 | 29 | 13 |    |    |  |
| 70               | 294         | 71         | 270                           | 248 | 226 | 196 | 168 | 137 | 102 | 275 | 252 | 231 | 210          | 185 | 158 | 129 | 99  | 276 | 259 | 237 | 221   | 195 | 172 | 150 | 125 | 96  | 60  | 44 | 29 | 13 |    |    |  |
| 72               | 311         | 74         | 287                           | 263 | 240 | 208 | 178 | 146 | 109 | 292 | 268 | 245 | 223          | 197 | 168 | 136 | 105 | 293 | 275 | 251 | 234   | 208 | 182 | 159 | 134 | 101 | 60  | 44 | 29 | 13 |    |    |  |
| 74               | 330         | 79         | 304                           | 278 | 254 | 220 | 188 | 154 | 115 | 309 | 283 | 259 | 236          | 207 | 178 | 145 | 111 | 310 | 291 | 266 | 248   | 220 | 193 | 168 | 140 | 107 | 60  | 44 | 29 | 13 |    |    |  |
| 76               | 347         | 83         | 320                           | 293 | 268 | 231 | 198 | 163 | 122 | 325 | 298 | 273 | 249          | 220 | 187 | 152 | 117 | 327 | 306 | 280 | 261   | 232 | 204 | 177 | 148 | 113 | 80  | 44 | 29 | 13 |    |    |  |
| 78               | 366         | 88         | 337                           | 310 | 283 | 244 | 209 | 172 | 128 | 343 | 315 | 288 | 262          | 232 | 198 | 160 | 124 | 345 | 323 | 296 | 275   | 244 | 215 | 187 | 156 | 120 | 80  | 44 | 29 | 13 |    |    |  |
| 80               | 386         | 93         | 355                           | 327 | 298 | 257 | 220 | 181 | 135 | 362 | 332 | 304 | 276          | 244 | 207 | 170 | 130 | 363 | 340 | 311 | 291   | 257 | 226 | 198 | 165 | 126 | 80  | 44 | 29 | 13 |    |    |  |
| 82               | 406         | 98         | 374                           | 343 | 314 | 272 | 232 | 190 | 142 | 381 | 351 | 320 | 291          | 256 | 219 | 179 | 136 | 362 | 358 | 328 | 306   | 271 | 238 | 207 | 174 | 133 | 80  | 44 | 29 | 13 |    |    |  |
| 84               | 427         | 103        | 393                           | 361 | 329 | 284 | 244 | 200 | 150 | 367 | 336 | 306 | 270          | 240 | 211 | 188 | 143 | 361 | 377 | 345 | 321   | 285 | 250 | 220 | 188 | 160 | 100 | 80 | 44 | 29 | 13 |    |  |
| 86               | 447         | 108        | 412                           | 378 | 345 | 298 | 255 | 209 | 157 | 416 | 384 | 352 | 320          | 283 | 251 | 196 | 151 | 411 | 394 | 361 | 336   | 298 | 262 | 228 | 191 | 146 | 80  | 44 | 29 | 13 |    |    |  |
| 88               | 468         | 113        | 432                           | 396 | 361 | 313 | 268 | 220 | 165 | 439 | 403 | 368 | 336          | 297 | 253 | 206 | 159 | 441 | 413 | 378 | 353   | 313 | 275 | 240 | 200 | 160 | 120 | 80 | 44 | 29 | 13 |    |  |
| 90               | 490         | 118        | 452                           | 415 | 379 | 328 | 280 | 230 | 174 | 460 | 422 | 386 | 352          | 311 | 265 | 216 | 166 | 463 | 433 | 396 | 370   | 327 | 268 | 251 | 210 | 161 | 120 | 80 | 44 | 29 | 13 |    |  |

| D.b.h.<br>inches                                  | Butt<br>log | Top<br>log | Tree height in number of logs |   |   |   |   |   |   |   | Log position |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---|-------------|------------|-------------------------------|---|---|---|---|---|---|---|--------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|   |             |            | 3                             |   |   |   | 4 |   |   |   | 5            |   |    |    | 6  |    |    |    | 7  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|   |             |            | 2                             | 2 | 3 | 2 | 3 | 4 | 2 | 3 | 4            | 5 | 2  | 3  | 4  | 5  | 2  | 3  | 4  | 5  | 6  | 2  | 3  | 4  | 5  | 6  | 7  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| gross for lumber Decimal C volume of 16-foot logs |             |            |                               |   |   |   |   |   |   |   |              |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 10  | 4           | 3          | 4                             | 5 | 6 | 4 | 5 | 6 | 7 | 5 | 8            | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 |

| D.b.h.<br>inches                                | Butt<br>log | Top<br>log | True height in number of logs |     |     |     |     |     |     |     |     |     | Log position |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---|-------------|------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|   |             |            | 9                             |     |     |     |     | 10  |     |     |     |     | 11           |     |     |     |     | 12  |     |     |     |     |     |     |     |     |
|   |             |            | 2                             | 3   | 4   | 5   | 6   | 7   | 8   | 2   | 3   | 4   | 5            | 6   | 7   | 8   | 9   | 2   | 3   | 4   | 5   | 6   | 7   | 8   |     |     |
| Gross Scribner Decimal C volume of 16-foot logs |             |            |                               |     |     |     |     |     |     |     |     |     |              |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 24  | 32          | 7          | 29                            | 27  | 25  | 21  | 16  | 14  | 10  | 89  | 81  | 74  | 67           | 59  | 50  | 44  | 31  | 112 | 102 | 91  | 80  | 69  | 58  | 44  | 38  |     |
| 26  | 38          | 8          | 35                            | 32  | 29  | 25  | 21  | 17  | 13  | 153 | 140 | 130 | 125          | 116 | 106 | 96  | 85  | 74  | 65  | 53  | 40  | 35  | 28  | 22  | 16  |     |
| 28  | 45          | 10         | 41                            | 38  | 34  | 28  | 25  | 20  | 15  | 144 | 139 | 130 | 125          | 115 | 106 | 96  | 85  | 74  | 65  | 53  | 40  | 35  | 28  | 22  | 16  |     |
| 30  | 52          | 11         | 48                            | 43  | 40  | 34  | 29  | 23  | 17  | 144 | 137 | 131 | 123          | 112 | 102 | 91  | 80  | 70  | 60  | 50  | 40  | 35  | 28  | 22  | 16  |     |
| 32  | 59          | 13         | 55                            | 50  | 45  | 39  | 33  | 27  | 20  | 144 | 137 | 131 | 123          | 112 | 102 | 91  | 80  | 70  | 60  | 50  | 40  | 35  | 28  | 22  | 16  |     |
| 34  | 67          | 15         | 62                            | 57  | 52  | 44  | 37  | 31  | 23  | 144 | 137 | 131 | 123          | 112 | 102 | 91  | 80  | 70  | 60  | 50  | 40  | 35  | 28  | 22  | 16  |     |
| 36  | 76          | 17         | 70                            | 64  | 58  | 50  | 43  | 35  | 25  | 144 | 137 | 131 | 123          | 112 | 102 | 91  | 80  | 70  | 60  | 50  | 40  | 35  | 28  | 22  | 16  |     |
| 38  | 85          | 19         | 78                            | 72  | 65  | 50  | 49  | 39  | 29  | 144 | 137 | 131 | 123          | 112 | 102 | 91  | 80  | 70  | 60  | 50  | 40  | 35  | 28  | 22  | 16  |     |
| 40  | 95          | 22         | 87                            | 80  | 73  | 62  | 53  | 44  | 32  | 144 | 137 | 131 | 123          | 112 | 102 | 91  | 80  | 70  | 60  | 50  | 40  | 35  | 28  | 22  | 16  |     |
| 42  | 105         | 24         | 96                            | 89  | 81  | 69  | 59  | 48  | 36  | 144 | 137 | 131 | 123          | 112 | 102 | 91  | 80  | 70  | 60  | 50  | 40  | 35  | 28  | 22  | 16  |     |
| 44  | 116         | 26         | 106                           | 98  | 89  | 76  | 65  | 53  | 40  | 108 | 99  | 91  | 82           | 72  | 62  | 50  | 45  | 35  | 25  | 15  | 10  | 5   | 0   | 0   | 0   |     |
| 46  | 126         | 29         | 117                           | 107 | 98  | 84  | 71  | 58  | 44  | 119 | 109 | 99  | 90           | 79  | 68  | 55  | 42  | 32  | 22  | 12  | 6   | 1   | 0   | 0   | 0   |     |
| 48  | 137         | 32         | 125                           | 115 | 105 | 91  | 78  | 64  | 48  | 128 | 116 | 107 | 98           | 86  | 73  | 59  | 45  | 32  | 22  | 12  | 6   | 1   | 0   | 0   | 0   |     |
| 50  | 151         | 35         | 138                           | 128 | 116 | 100 | 85  | 69  | 52  | 144 | 129 | 118 | 108          | 95  | 80  | 65  | 50  | 34  | 24  | 14  | 8   | 4   | 2   | 1   | 0   |     |
| 52  | 163         | 38         | 150                           | 138 | 125 | 108 | 93  | 76  | 57  | 153 | 140 | 128 | 117          | 103 | 87  | 71  | 54  | 34  | 24  | 14  | 8   | 4   | 2   | 1   | 0   |     |
| 54  | 176         | 41         | 162                           | 149 | 135 | 117 | 101 | 82  | 62  | 165 | 152 | 139 | 126          | 111 | 95  | 76  | 59  | 34  | 24  | 14  | 8   | 4   | 2   | 1   | 0   |     |
| 56  | 190         | 45         | 175                           | 160 | 146 | 126 | 109 | 89  | 66  | 178 | 163 | 149 | 136          | 120 | 102 | 83  | 63  | 34  | 24  | 14  | 8   | 4   | 2   | 1   | 0   |     |
| 58  | 204         | 48         | 188                           | 173 | 157 | 136 | 117 | 95  | 71  | 192 | 176 | 161 | 156          | 132 | 110 | 89  | 68  | 34  | 24  | 14  | 8   | 4   | 2   | 1   | 0   |     |
| 60  | 219         | 52         | 202                           | 185 | 168 | 145 | 125 | 102 | 77  | 206 | 188 | 172 | 157          | 137 | 118 | 96  | 73  | 34  | 24  | 14  | 8   | 4   | 2   | 1   | 0   |     |
| 62  | 234         | 55         | 216                           | 198 | 180 | 156 | 134 | 109 | 83  | 220 | 201 | 185 | 168          | 148 | 126 | 102 | 78  | 34  | 24  | 14  | 8   | 4   | 2   | 1   | 0   |     |
| 64  | 250         | 59         | 230                           | 211 | 192 | 168 | 144 | 117 | 88  | 235 | 215 | 197 | 179          | 158 | 134 | 109 | 84  | 34  | 24  | 14  | 8   | 4   | 2   | 1   | 0   |     |
| 66  | 268         | 63         | 245                           | 205 | 177 | 153 | 132 | 94  | 250 | 229 | 210 | 191 | 168          | 145 | 117 | 89  | 34  | 24  | 14  | 8   | 4   | 2   | 1   | 0   |     |     |
| 68  | 282         | 68         | 262                           | 239 | 205 | 177 | 153 | 132 | 100 | 265 | 244 | 223 | 203          | 179 | 152 | 124 | 95  | 34  | 24  | 14  | 8   | 4   | 2   | 1   | 0   |     |
| 70  | 301         | 72         | 277                           | 254 | 232 | 200 | 171 | 140 | 105 | 282 | 258 | 236 | 215          | 189 | 162 | 132 | 101 | 282 | 265 | 243 | 226 | 200 | 176 | 153 | 128 | 98  |
| 72  | 318         | 76         | 293                           | 269 | 246 | 212 | 182 | 149 | 111 | 298 | 274 | 251 | 228          | 201 | 171 | 140 | 107 | 300 | 281 | 257 | 240 | 210 | 186 | 162 | 136 | 104 |
| 74  | 337         | 81         | 310                           | 285 | 250 | 224 | 192 | 157 | 118 | 316 | 289 | 265 | 241          | 212 | 181 | 148 | 114 | 317 | 297 | 272 | 254 | 224 | 197 | 172 | 143 | 110 |
| 76  | 356         | 85         | 328                           | 301 | 274 | 237 | 203 | 166 | 124 | 333 | 306 | 280 | 254          | 225 | 191 | 156 | 120 | 325 | 314 | 297 | 276 | 256 | 237 | 208 | 182 | 156 |
| 78  | 374         | 90         | 340                           | 317 | 290 | 250 | 214 | 176 | 131 | 351 | 323 | 295 | 268          | 237 | 202 | 165 | 127 | 352 | 331 | 303 | 285 | 260 | 240 | 220 | 192 | 160 |
| 80  | 395         | 95         | 364                           | 341 | 305 | 263 | 225 | 185 | 138 | 370 | 339 | 311 | 283          | 250 | 213 | 173 | 133 | 371 | 348 | 319 | 297 | 263 | 232 | 202 | 169 | 129 |
| 82  | 414         | 100        | 383                           | 351 | 321 | 277 | 237 | 195 | 146 | 389 | 357 | 327 | 298          | 263 | 224 | 183 | 140 | 391 | 366 | 335 | 312 | 277 | 244 | 213 | 178 | 136 |
| 84  | 425         | 105        | 402                           | 369 | 337 | 291 | 250 | 204 | 153 | 409 | 375 | 343 | 313          | 276 | 235 | 192 | 148 | 410 | 385 | 352 | 328 | 291 | 250 | 224 | 187 | 135 |
| 86  | 436         | 110        | 422                           | 388 | 354 | 305 | 262 | 214 | 161 | 429 | 394 | 360 | 328          | 290 | 247 | 201 | 155 | 430 | 404 | 370 | 345 | 305 | 289 | 254 | 219 | 151 |
| 88  | 447         | 116        | 442                           | 405 | 370 | 320 | 274 | 225 | 169 | 449 | 412 | 377 | 344          | 304 | 259 | 211 | 162 | 451 | 423 | 397 | 367 | 331 | 301 | 282 | 245 | 205 |
| 90  | 502         | 121        | 462                           | 425 | 387 | 335 | 287 | 236 | 177 | 470 | 432 | 395 | 360          | 318 | 271 | 221 | 170 | 472 | 443 | 405 | 378 | 335 | 305 | 282 | 245 | 205 |





